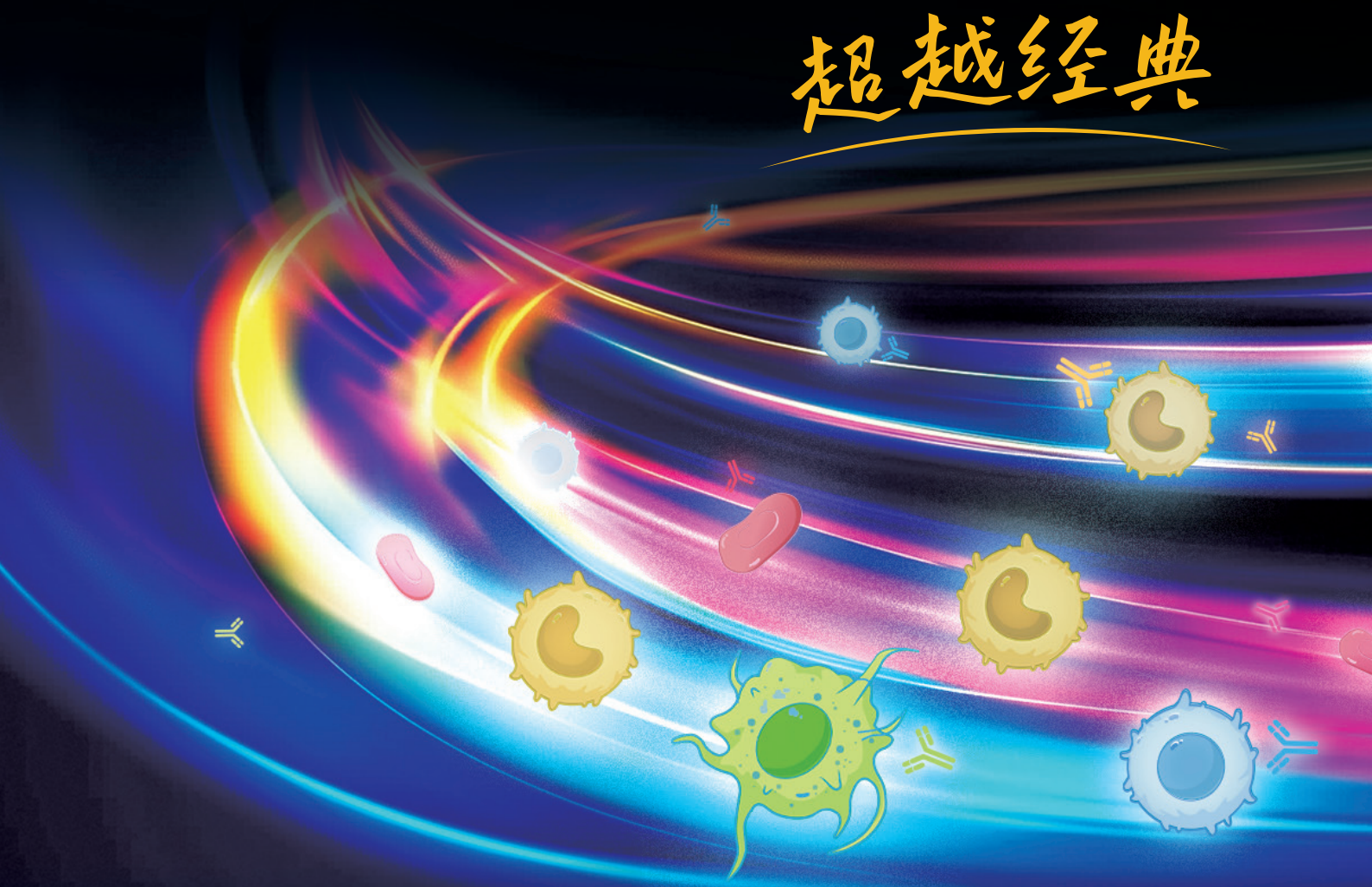




重组流式抗体 应用对比数据

超越经典



目录

01	公司介绍.....	4
02	ABCE™单个 B 细胞抗体发现技术平台.....	5
03	重组流式抗体介绍.....	6
	全新克隆重组流式抗体.....	6
	传统克隆重组流式抗体.....	10
	FcZero-rAb®Fc 沉默重组流式抗体.....	12
04	重组流式抗体应用对比数据.....	16
05	流式实验辅助试剂.....	23
	流式荧光染料介绍.....	23
	辅助试剂介绍.....	24
06	重组流式抗体目录.....	25
	Anti-Human 系列.....	25
	Anti-Mouse 系列.....	28
	Anti-Rat 系列.....	30
	Anti-Rabbit 系列.....	30
	同型对照抗体.....	30



热门靶点对比数据索引

白细胞共同抗原	
Human	
CD45	16
B 细胞	
Human	
CD19	16
CD21	16
CD22	16
CD23	16
CD79a	16
CD79b	17
Mouse	
CD19	17
T 细胞	
Human	
CD3	17
CD4	17
CD5	17
CD8	18
CD28	18
CD29	18
Granzyme B	18
IL-7Ra/CD127	18
Rat	
CD4	18

NK 细胞	
Human	
CD56	19
CD107a / LAMP1	19
CD314/NKG2D	19
单核细胞	
Human	
CD11b	19
CD14	19
CD16	20
CD64	20
HLA-DR	20
Mouse	
CD11c	20
巨噬细胞	
Human	
CD11b	19
CD14	19
CD16	19
CD86	20
Mouse	
CD11c	20
F4/80	21
CD86	21

树突状细胞	
Human	
IL3RA/CD123	21
造血干细胞	
Human	
CD38	21
间充质干细胞	
Human	
CD29	18
CD90	21
内皮细胞	
Human	
ICAM-1/CD54	21
其他	
Human	
CD47	22
CD59	22
Fas/CD95	22
PD-1/CD279	22
Mouse	
IL-12/IL-23 p40	22

关于 Proteintech

Proteintech 于 2001 年在美国芝加哥创立，是一家深度服务于生命科学研究及精准医学领域的生物公司，提供抗体、重组蛋白、ELISA 试剂盒、实验试剂及高品质 CRO 技术服务。作为全球化的生物公司，Proteintech 致力于与全球科研机构和企业建立合作关系，共同推动生命科学研究的进步。

抗体 · ELISA 试剂盒 · 重组蛋白 · 辅助试剂 · CRO 服务

全球四大研发中心

- I 美国芝加哥研发生产中心
- II 美国圣地亚哥研发生产中心
- III 中国武汉研发生产中心
- IV 德国慕尼黑研发生产中心



全球 10000+ 企业及院所的认可

- 生物技术公司
- 体外诊断公司
- 创新药公司
- 疫苗公司
- 生物试剂公司
- CXO 公司
- 医美及化妆品公司
- 科研院所

营销网络覆盖全球快速响应

- 七大分公司及库存基地
- 1-3 天到货周期
- 提供产品定制服务
- 24 小时专业技术支持

质量管理体系认证

GMP 级别细胞因子：
严格执行 GMP 标准及
GMP 质量管理体系



重组流式抗体来自 Proteintech 自主知识产权平台 ABCE™

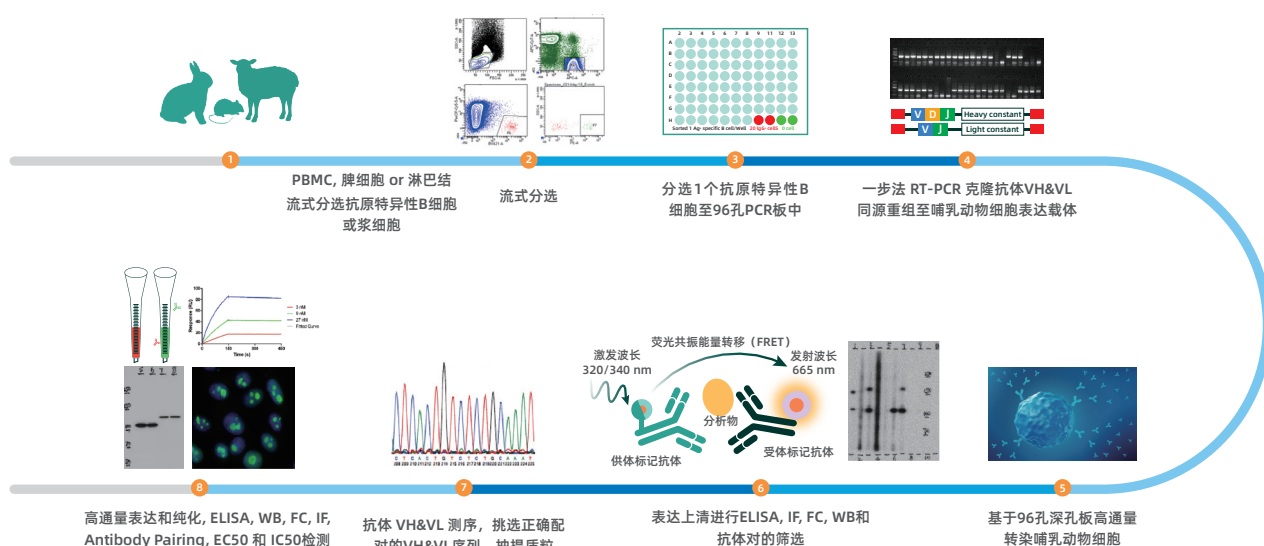
重组流式抗体是 Proteintech 最新一代抗体产品，基于 ABCE™（Antigen-Specific B-Cell Cloning & Engineering）单个 B 细胞抗体发现技术平台而开发。该平台通过将特异性 B 细胞中的抗体重链和轻链基因克隆至拥有自主产权的高表达哺乳动物细胞载体中，在体外实现重组单克隆抗体的稳定高表达。



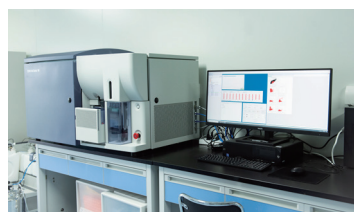
^{*1} 高通量表达上清初筛、高通量纯化抗体二次筛查、抗体上线前检测。

^{*2} Protein A 和混合模式阳或阴离子交换介质两步精纯工艺，确保抗体高纯度。

^{*3} 可开发全长抗体、融合抗体、嵌合抗体和双特异性抗体，Fab、scFv、sdAb 等抗体片段。



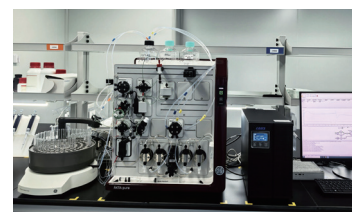
▲ABCE™单个B细胞抗体发现技术平台技术路线



流式细胞分选仪进行单细胞分选



非标记生物分子分析仪进行抗体亲和力测定及筛选



层析系统进行抗体精纯

▲ABCE™单个B细胞抗体发现技术平台部分仪器

全新克隆重组兔单克隆流式抗体

Proteintech 全新克隆的重组兔单克隆流式抗体经过固定和非固定染色多轮筛选及验证，拥有最佳信号强度和最低背景。



兔单克隆抗体优势

更广的表位识别能力

- 兔子具备更多的抗原呈递CD1 分子(兔子5 个：小鼠1 个)
- 能够识别在啮齿类没有免疫原性的人类抗原表位

抗体多样性好

- 细胞的三个主要不同发育阶段：GALT：肠道相关淋巴组织；SGC：体细胞基因转化；SHM：体细胞超突变
- 抗体长度和序列差异较大，尤其是 CDR3，
- 轻链贡献更多的抗体亲和力

高亲和力

- 兔抗Kd 在皮摩尔(10^{-12}) 水平
- 小鼠单克隆抗体在纳摩尔(10^{-9})水平
- 兔单克隆抗体正常情况下比啮齿类抗体亲和力高10-100 倍

高特异性

- 有能力区分非常相似的蛋白和序列
- 识别小分子和修饰性位点
- 识别表位的细微变化
- 较低的交叉反应

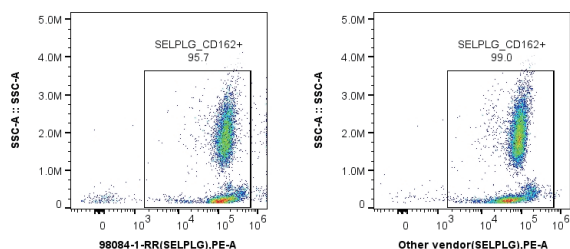
重组兔单克隆流式抗体优势：

- 1.天然样本严格验证，确保抗体高效性。
- 2.统一兔抗骨架，仅需一种同型对照，操作方便成本低。
- 3.重组技术，产能高，上新快，大量稳定供应。

1. 覆盖靶标类型多样

· 膜蛋白

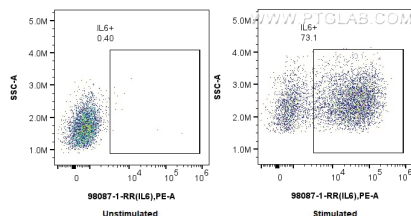
膜蛋白的特异性流式抗体可以帮助研究人员快速进行免疫细胞鉴定等研究。



物种	检测靶点	重组流抗货号	克隆号
Human	CD162	98084-1-RR	241297F10

· 胞内蛋白

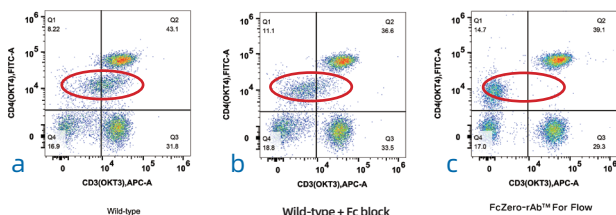
胞内蛋白的特异性流式抗体可以帮助研究人员快速进行免疫细胞功能分析等研究。



物种	检测靶点	重组流抗货号	克隆号
Human	IL-6	98087-1-RR	240670D12

· Fc沉默重组流抗

Fc 效应沉默技术从根源上消除了由 Human/Mouse Fc 受体结合引起的非特异性背景信号，无需使用 Fc 受体封闭剂，有效简化操作，降低成本。

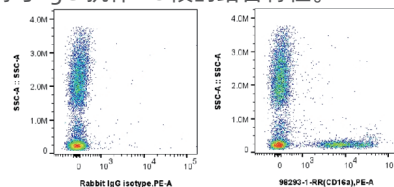


a. 常规 anti-CD3 及 anti-CD4 流抗染色，未添加 Fc 受体阻断试剂；
b. 常规 anti-CD3 及 anti-CD4 流抗染色，添加 Fc 受体阻断试剂；
c. 新型 FcZero-rAb® 系列 anti-CD3 及 anti-CD4 重组流抗染色，未添加 Fc 受体阻断试剂。

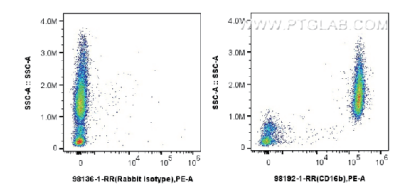
物种	检测靶点	重组流抗货号	克隆号
Human	CD3	APC-FcA65569	OKT3
Human	CD4	APC-FcA65603	OKT4

· 结构相似，细微差异蛋白

CD16a 和 CD16b 结构上相似，但存在的细微差异影响了它们与 IgG 抗体 Fc 段的结合特性。



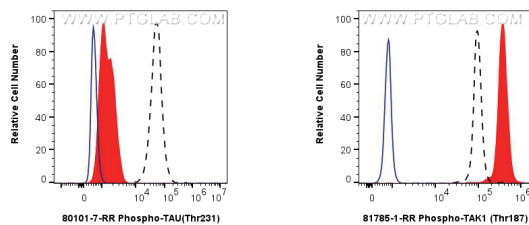
物种	检测靶点	重组流抗货号	克隆号
Human	CD16a	98293-1-RR	242426G11



物种	检测靶点	重组流抗货号	克隆号
Human	CD16b	98192-1-RR	241713E3

· 修饰性蛋白

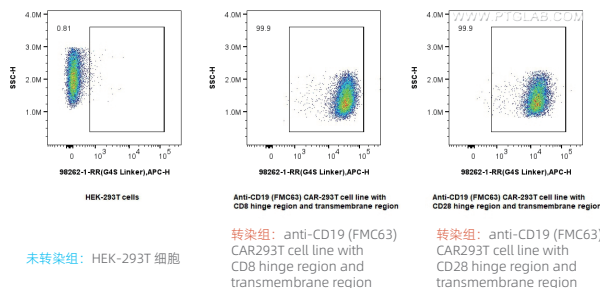
磷酸化蛋白的特异性流式抗体可以帮助研究人员快速、有效地测量单个细胞中的信号级联。



检测靶点	货号	应用	适用物种
Phospho-TAU (Thr231)	80101-7-RR(左)	WB, FC (Intra), ELISA	Human
Phospho-TAK1 (Thr187)	81785-1-RR(右)	WB, FC (Intra), ELISA	Human

· CAR阳性率检测抗体

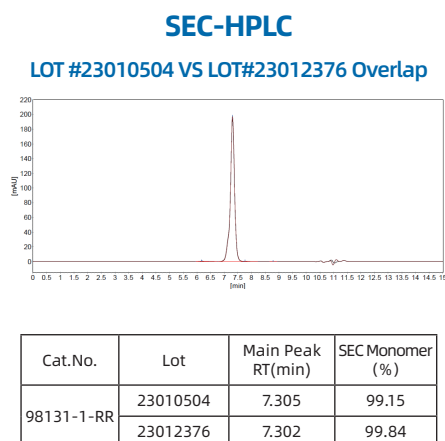
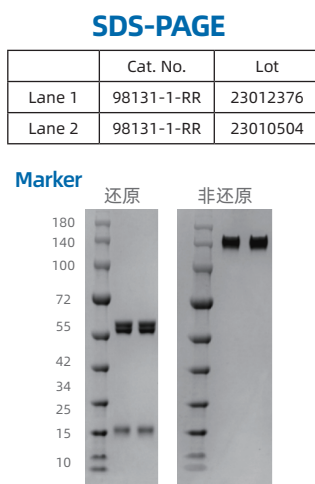
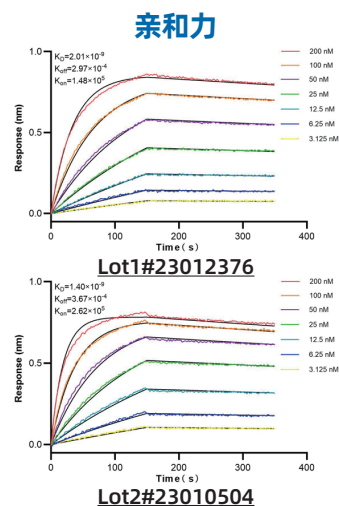
Anti-G4S Linker 抗体可以用于检测和分析含有 G4S 的 CAR-X 细胞，检测 CAR 阳性率及功能评估。



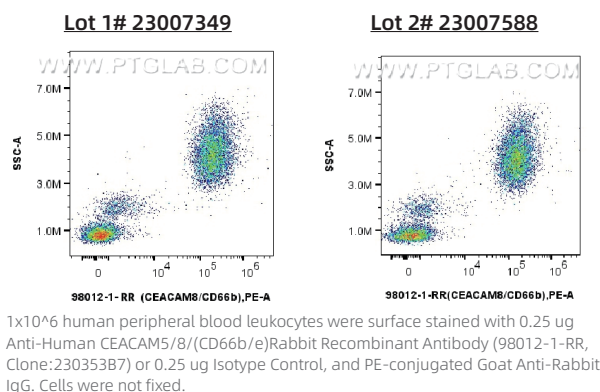
未转染组：HEK-293T 细胞

物种	检测靶点	重组流抗货号	克隆号
N/A	G4S Linker	98262-1-RR	242306C8

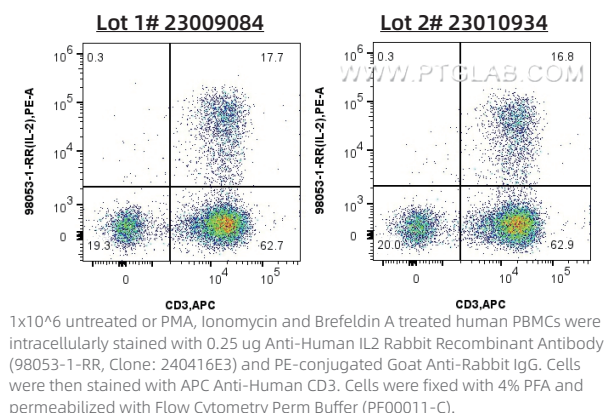
2. 批间稳定性高



物种	检测靶点	重组流抗货号	克隆号
Human	CD47	98131-1-RR	240997D8

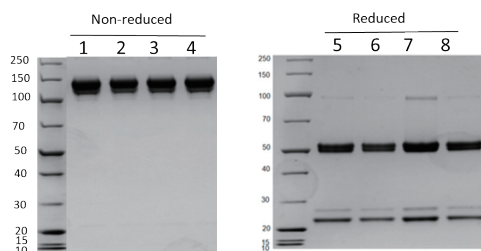
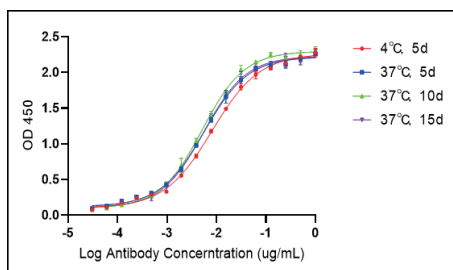


物种	检测靶点	重组流抗货号	克隆号
Human	CEACAM5/8/(CD66b/e)	98012-1-RR	230353B7



物种	检测靶点	重组流抗货号	克隆号
Human	IL2	98053-1-RR	240416E3

3. 热稳定性高



Lane 1/5: 4° 5 day
 Lane 2/6: 37° 5 day
 Lane 3/7: 37° 10 day
 Lane 4/8: 37° 15 day

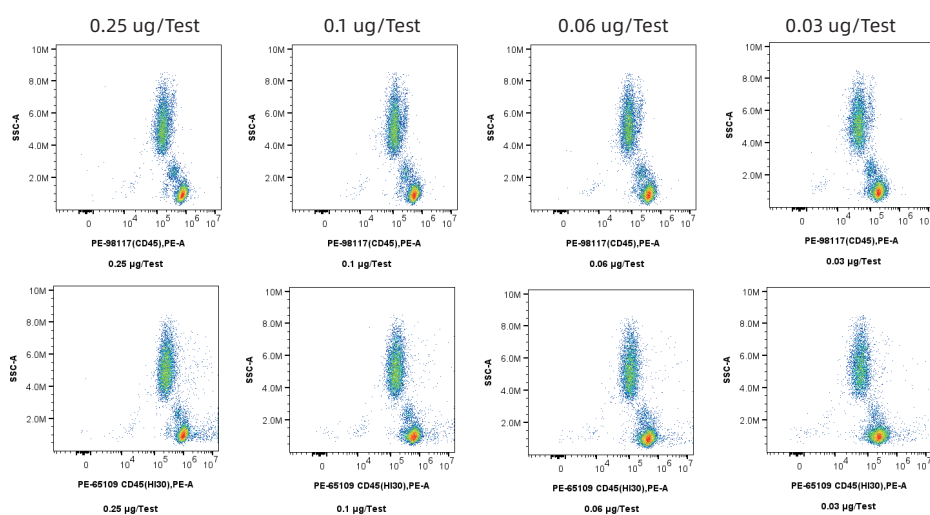
37°C, 15天后检测性能一致, 热稳定性高。

物种	检测靶点	重组流抗货号	克隆号
Human	CEACAM5/8/(CD66b/e)	98012-1-RR	230353B7

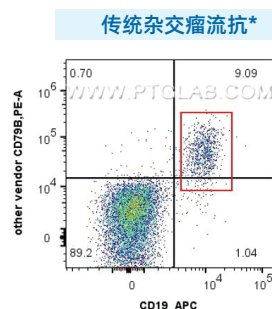
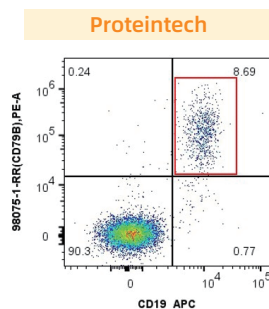
4. 效价高

物种	检测靶点
Human	CD45
重组流抗货号	克隆号
PE-98117	241670E10

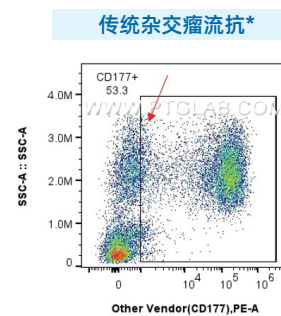
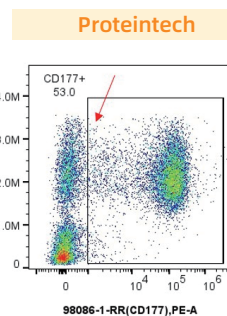
物种	检测靶点
Human	CD45
杂交瘤小鼠单抗货号	克隆号
PE-65109	HI30



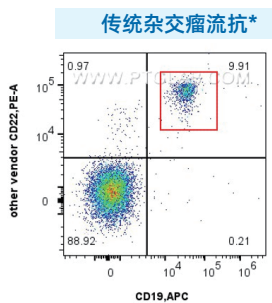
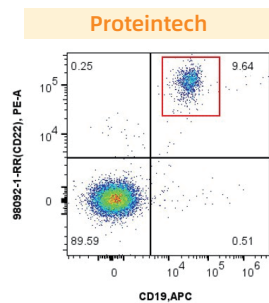
5. 性能优越



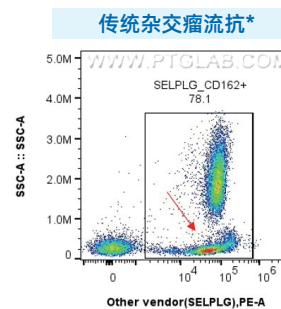
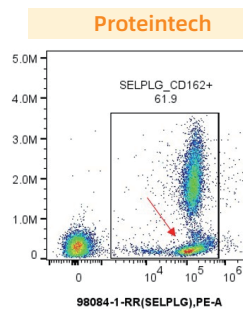
物种	检测靶点	重组流抗货号	克隆号
Human	CD79b	98075-1-RR	241273B7



物种	检测靶点	重组流抗货号	克隆号
Human	CD177	98086-1-RR	241339F4



物种	检测靶点	重组流抗货号	克隆号
Human	CD22	98092-1-RR	241315A1



物种	检测靶点	重组流抗货号	克隆号
Human	SELPLG/CD162	98084-1-RR	241297F10

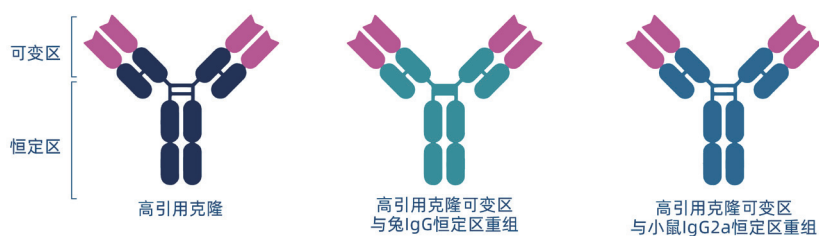
传统克隆重组流式抗体（传统杂交瘤流式抗体重组化）

杂交瘤来源的抗体依赖细胞培养，可能存在表达退化、批次差异大以及抗体纯度低的风险。Proteintech 将流式细胞术中高引用克隆抗原结合区与兔 IgG、小鼠 IgG2a 的骨架重组，获得的抗体同时具备高引用克隆性能及重组抗体一致性优势。

杂交瘤细胞可能产生的风险

1. 额外产生一条功能性轻链的杂交瘤细胞，能够分泌三种不同的抗体，导致非特异性靶点结合。
2. 额外产生一条功能性重链和轻链的杂交瘤细胞，能够分泌 10 种不同的抗体（随机组合），导致非特异性靶点结合。
3. 多细胞融合（一个骨髓瘤细胞与多个脾脏细胞）、异常重组（一个脾脏细胞含有多个链重组）、染色质复制、断裂突变等会导致产生的杂交瘤表达多条正常或不正常的重轻链序列。

（来自 Bradbury ARM, Trinklein ND, Thie H, et, al . 2018 May/Jun;10(4):539-546.）



▲Proteintech传统克隆重组化流式抗体

传统流式重组抗体优势：

1. 抗体骨架统一，同型对照设置简单成本低。
2. 基因确定性抗体，抗体纯度高，特异性高。
3. 重组技术，批间高度一致性且可大量稳定供应。

1. 重组化的抗体骨架统一，同型对照设置简单

杂交瘤单抗

多物种 / 多亚型，同型对照组设置繁琐



Human CD11b 65116-1-g
Clone: ICRF44
Isotype: Mouse/IgG1, kappa
Class: mouse Monoclonal



Human CD4 65134-1-g
Clone: OKT4
Isotype: Mouse/IgG2b, kappa
Class: mouse Monoclonal



Human CD3 65133-1-g
Clone: OKT3
Isotype: Mouse/IgG2a, kappa
Class: mouse Monoclonal

重组抗体

单一物种 / 单一亚型，同型对照组设置简单



Human CD11b 65582-1-MR
Clone: ICRF44
Isotype: Mouse/IgG2a
Class: Recombinant Monoclonal

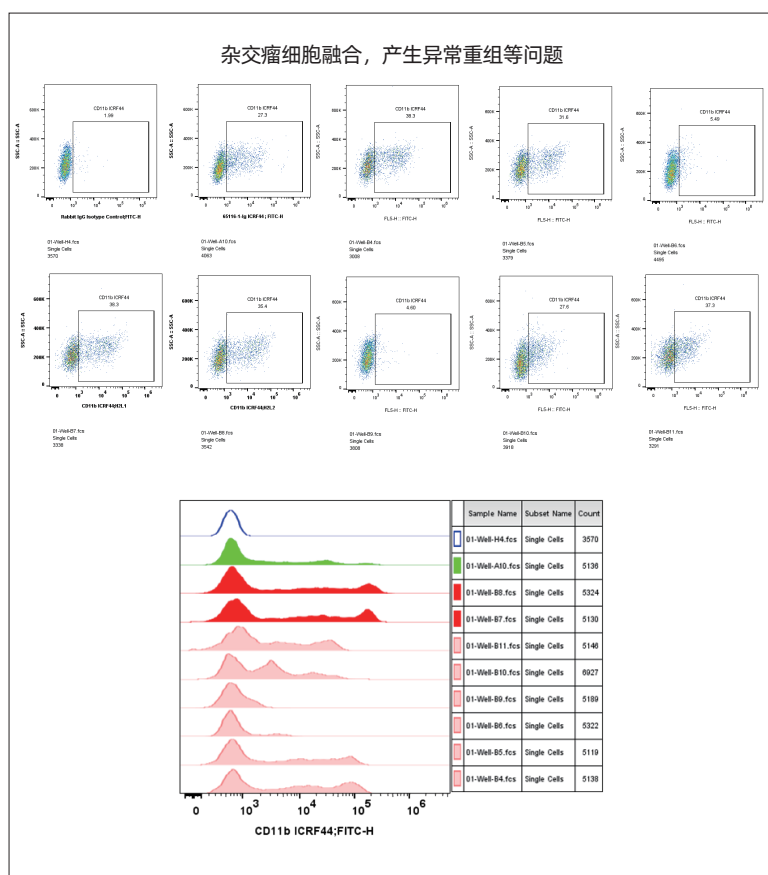


Human CD4 65603-1-MR
Clone: OKT4
Isotype: Mouse/IgG2a
Class: Recombinant Monoclonal

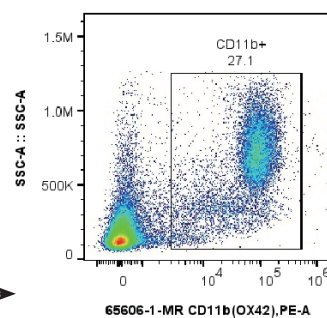


Human CD3 65569-1-MR
Clone: OKT3
Isotype: Mouse/IgG2a
Class: Recombinant Monoclonal

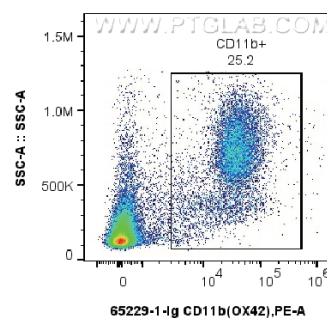
2. 重组化的抗体纯度高，特异性高



Anti-Rat CD11b Mouse IgG2a 重组抗体
货号: 65606-1-MR 克隆号: OX42



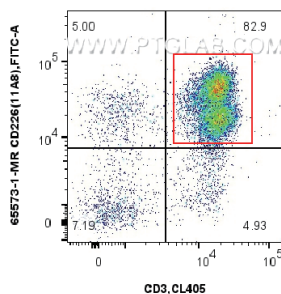
Anti-Rat CD11b Mouse IgG2a 杂交瘤单抗
货号: 65229-1-Ig 克隆号: OX42



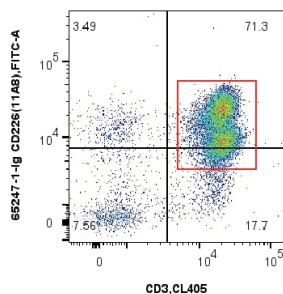
3. 重组化的流抗性能优越

Anti-Human CD226 (11A8)

重组化流抗
货号: 65573-1-MR

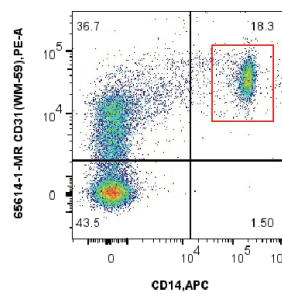


杂交瘤流抗
货号: 65247-1-Ig

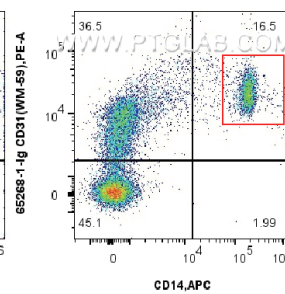


Anti-Human CD31 (WM-59)

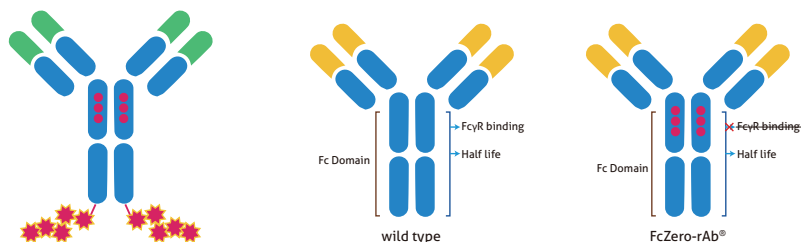
重组化流抗
货号: 65614-1-MR



杂交瘤流抗
货号: 65268-1-Ig



FcZero-rAb® 新型骨架重组流式抗体来自 Proteintech ABCE™ 单个 B 细胞抗体发现和 FcZero® Fc 沉默双重技术平台，在拥有重组抗体一致性的基础上有效避免传统杂交瘤细胞系表达退化的风险，同时能够完全消除 Fc 效应，让流式更简单。



优势：

- 完全消除 Fc 效应：**无需使用 FcR 封闭剂，减少非特异性背景的同时降低实验成本。
- 生物定点标记：**远离活性中心，标记具有高度均一性和批间一致性，高水平满足临床样本分析检测要求。
- 仅需一种同型对照：**抗体骨架统一，大大降低实验难度及成本，同时也可根据客户需求，灵活定制不同的骨架。（如 Human IgG1, Mouse IgG2a）
- 供应稳定：**重组技术，产能高，供应稳定。

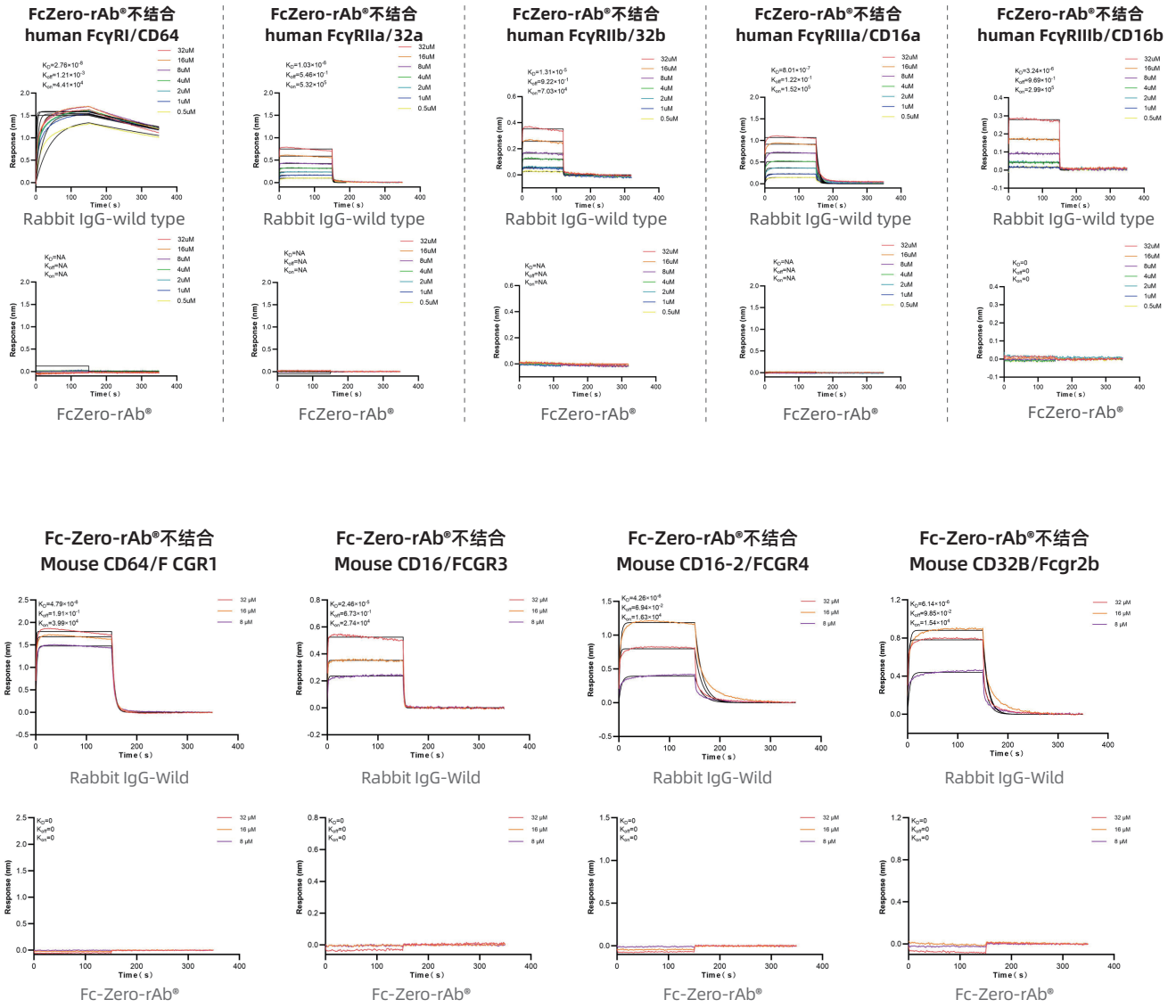
1. FcZero-rAb® 重组流抗完全消除了与人及小鼠 FcγR 结合

FcZero-rAb® 新型骨架流式抗体的核心在于 FcZero® 沉默技术，Proteintech 通过该技术在 Rabbit IgG 的 Fc CH2 区域进行关键氨基酸位点突变，屏蔽了抗体与 Fc 受体的结合，形成 Fc silencing（Fc 效应沉默）。该技术完全消除了兔 IgG 的 Fc 段与人及小鼠 Fc 受体的结合，使其在流式细胞术应用中减少了由 Fc 受体结合引起的非特异性背景信号，数据真实性更高。

BLI 法测定亲和力

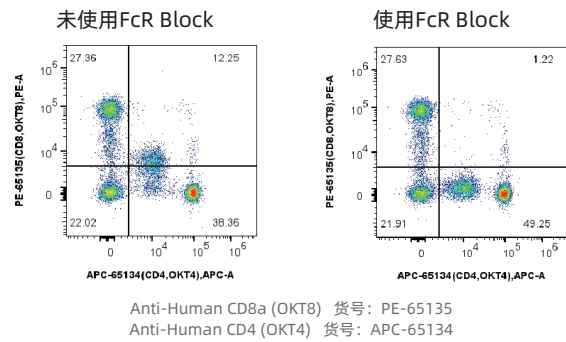
Human Fc 受体类型	Rabbit IgG-wild type	FcZero® 沉默抗体
	是否与其结合	是否与其结合
FcγRI/CD64	√	×
FcγRIIa/32a(167R)	√	×
FcγRIIa/32a(167H)	√	×
FcγRIIb/32b	√	×
FcγRIIIa/CD16a(176F)	√	×
FcγRIIIa/CD16a(176V)	√	×
FcγRIIIb/CD16b(NA1 allotype)	√	×
FcγRIIIb/CD16b(NA2 allotype)	√	×

Mouse Fc 受体类型	Rabbit IgG-wild type	FcZero® 沉默抗体
	是否与其结合	是否与其结合
FcγRI/CD64	√	×
FcγRIIB	√	×
FcγRIII/CD16	√	×
FcγRIV	√	×

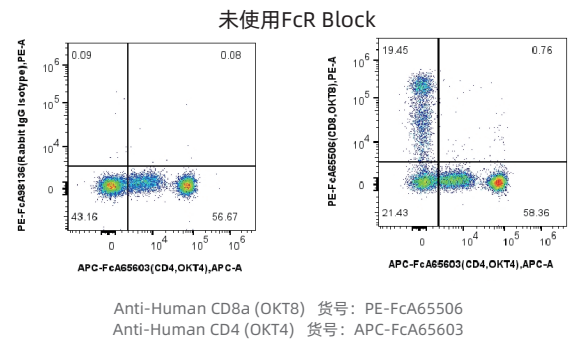


FcZero-rAb® 新型骨架重组流式抗体 Fc 沉默性能极佳

传统流式抗体



FcZero-rAb® 新型骨架重组流式抗体



2. FcZero-rAb® 定点定量标记

FcZero-rAb® 新型骨架重组流式抗体采用了生物定点标记技术，每一个裸抗分子的 Fc 段都有两个明确标记位点，可以定点定量标记所需偶联物，确保信号强度的均一性和批次间标记情况的重复性。

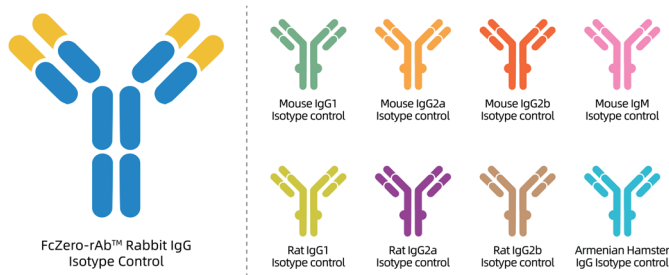
生物定点标记



化学随机标记

3. FcZero-rAb® 仅需一种同型对照

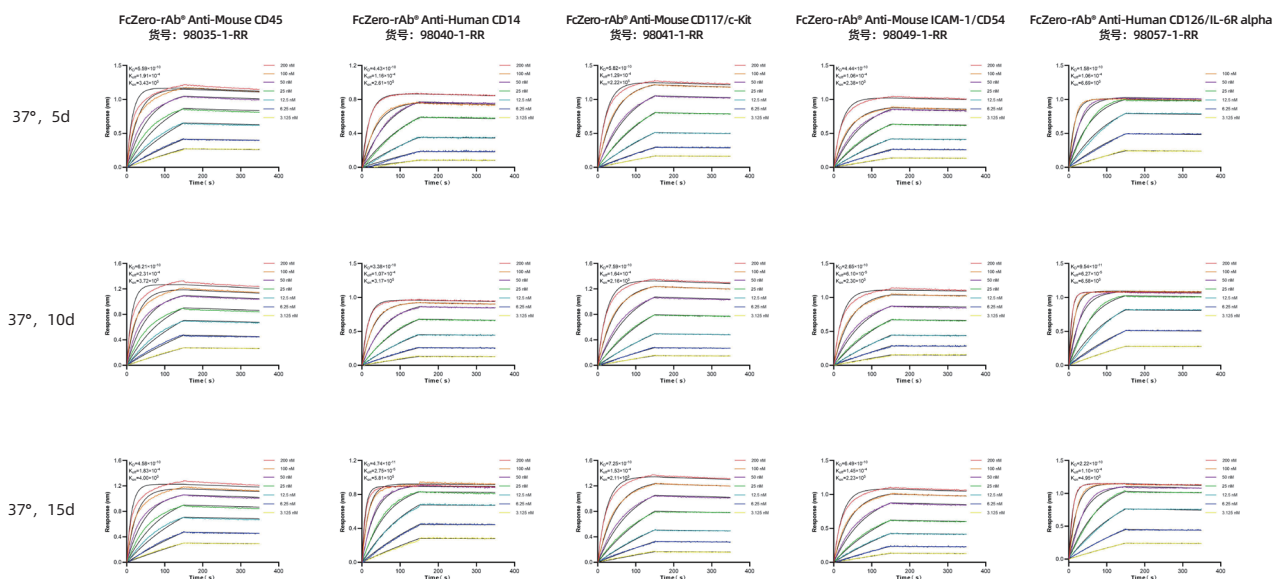
传统流式抗体即使来源于同一个物种，也可能有多个抗体亚型，比如小鼠 IgG1、IgG2a、IgG2b 和 IgGM（右图）；而 FcZero-rAb® 新型骨架流式抗体全系列采用了同一种新型抗体骨架，仅需一种同型对照即可（左图），不仅能够降低实验难度，还能有效节省成本。



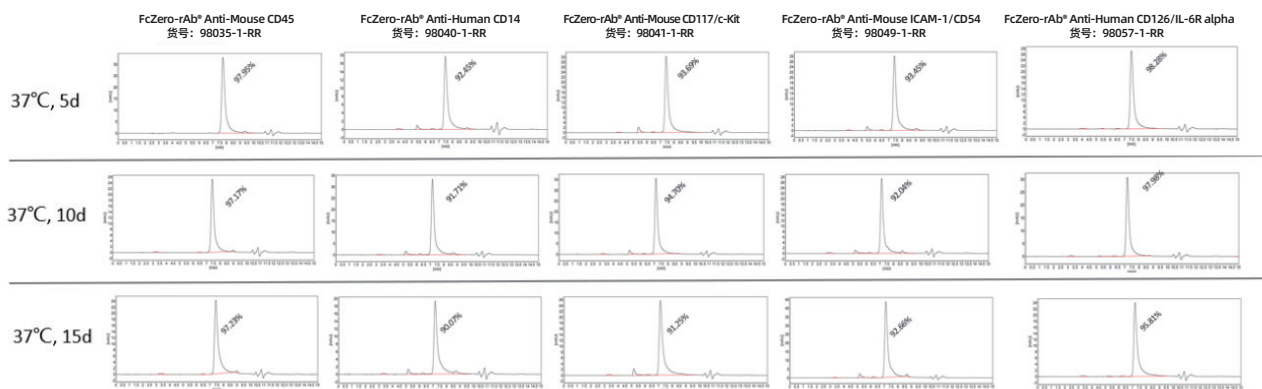
4. FcZero-rAb® 重组流抗热稳定性高

FcZero-rAb® 新型骨架重组流式抗体的全新骨架，经亲和力和测定、SEC-HPLC 纯度分析和流式实验检测，在 4°C 保存 1 年之后，成分依旧单一稳定，具有高生物活性。

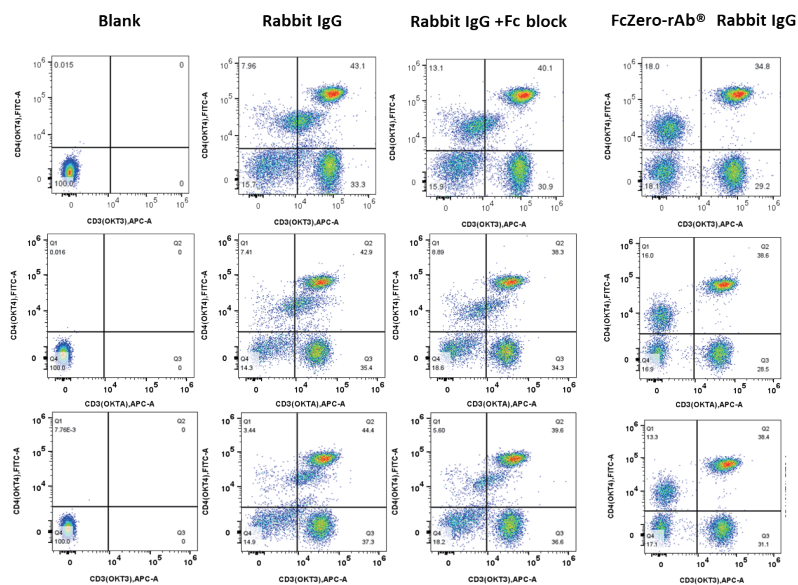
▼多循环亲和力和测定



▼ SEC-HPLC 检测

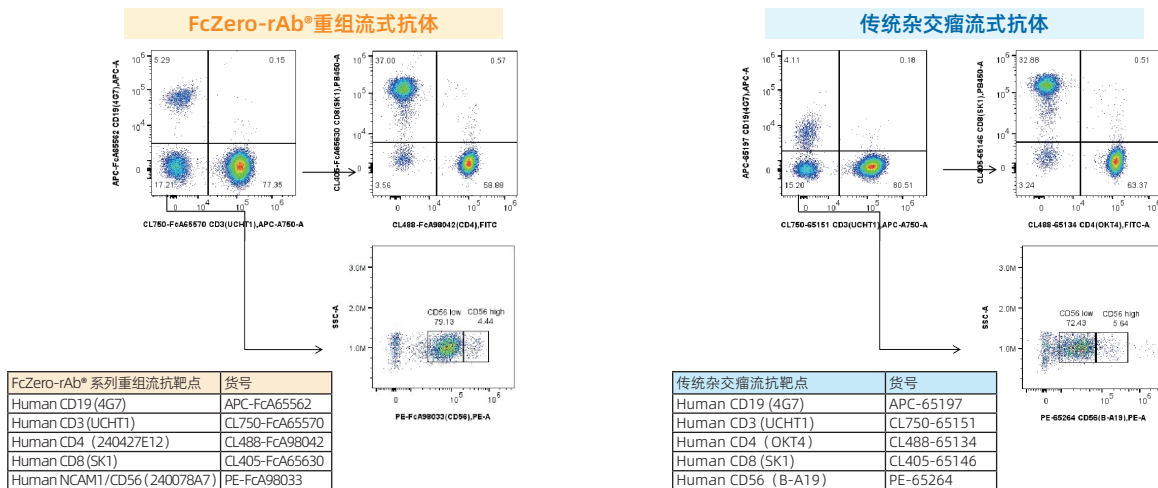


▼ 流式检测



5. FcZero-rAb® 重组流抗应用数据

▼ Human TBNK 细胞基础分析

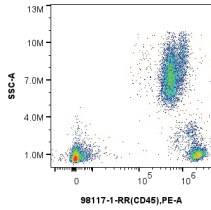


重组流式抗体应用对比数据

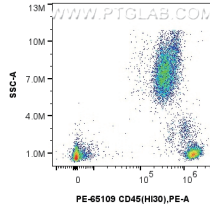
经充分测试，Proteintech 的 Uni-rAb™ 重组流式抗体与传统克隆相比具有相似或更优越的性能。

CD45 (白细胞共同抗原)

全新克隆重组流抗



传统杂交瘤流抗

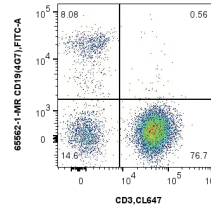


1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CD45 Rabbit Recombinant Antibody (98117-1-RR, Clone:241670E10) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG (left) or 0.25 ug PE Anti-Human CD45 (Hi30) (PE-65109, Clone: Hi30) (right). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

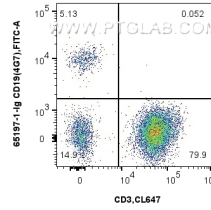
物种	检测靶点	重组流抗货号	克隆号
Human	CD45	98117-1-RR	241670E10

CD19 (B 细胞)

传统克隆重组化流抗



传统杂交瘤流抗

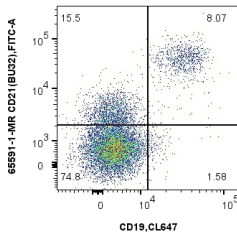


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD19 Mouse IgG2a Recombinant Antibody (65562-1-MR, Clone:4G7) (left) or 0.25 ug Anti-Human CD19 (65197-1-Ig, Clone: 4G7) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.

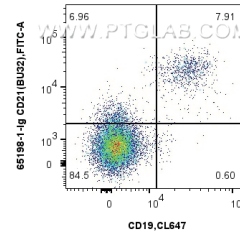
物种	检测靶点	重组流抗货号	克隆号
Human	CD19	65562-1-MR	4G7

CD21 (B 细胞)

全新克隆重组流抗



传统杂交瘤流抗

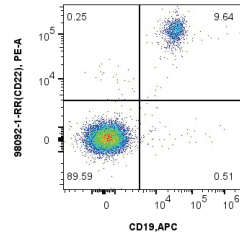


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD21 Mouse IgG2a Recombinant Antibody (65591-1-MR, Clone: BU32) (left) or 0.25 ug Anti-Human CD21 (65198-1-Ig, Clone: BU32) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.

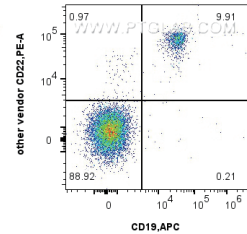
物种	检测靶点	重组流抗货号	克隆号
Human	CD21	65591-1-MR	BU32

CD22 (B 细胞)

全新克隆重组流抗



传统杂交瘤流抗*

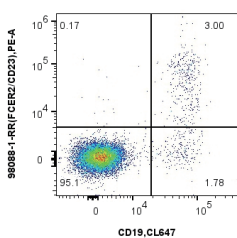


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD22 Rabbit Recombinant Antibody (98092-1-RR, Clone:241315A1) and PE-conjugated Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Human CD22 (right). Cells were co-stained with APC Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.

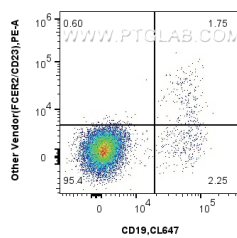
物种	检测靶点	重组流抗货号	克隆号
Human	CD22	98092-1-RR	241315A1

CD23 (B 细胞)

全新克隆重组流抗



传统杂交瘤流抗*

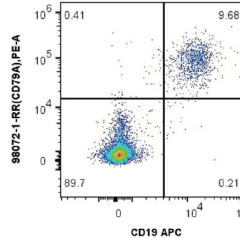


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD23 Rabbit Recombinant Antibody (98088-1-RR, Clone:241270C6) and PE-conjugated Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Human CD23 (right). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.

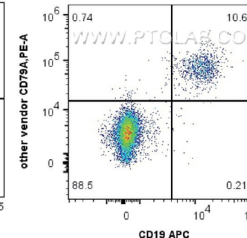
物种	检测靶点	重组流抗货号	克隆号
Human	CD23	98088-1-RR	241270C6

CD79a (B 细胞)

全新克隆重组流抗



传统杂交瘤流抗*



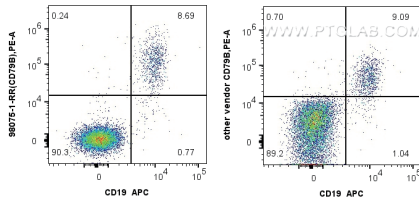
1x10⁶ human PBMCs were intracellularly stained 0.25 ug Anti-Human CD79a Rabbit Recombinant Antibody (98072-1-RR, Clone:241299F3) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(left) or 0.25 ug other vendor PE Anti-Human CD79a (right). Cells were co-stained with APC Anti-Human CD19. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.

物种	检测靶点	重组流抗货号	克隆号
Human	CD79a	98072-1-RR	241299F3

CD79b (B 细胞)

全新克隆重组流抗

传统杂交瘤流抗*



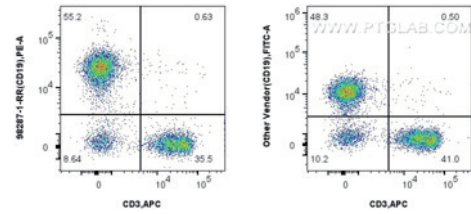
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD79b Rabbit Recombinant Antibody (98075-1-RR, Clone:241273B7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Human CD79b (right). Cells were co-stained with APC Anti-Human CD19. Cells were not fixed. Lymphocytes were gated..

物种	检测靶点	重组流抗货号	克隆号
Human	CD79b	98075-1-RR	241273B7

CD19 (B 细胞)

全新克隆重组流抗

传统杂交瘤流抗*



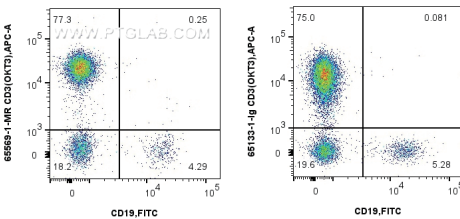
1x10⁶ mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD19 Rabbit RecAb (98287-1-RR, Clone: 242301C6) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed.

物种	检测靶点	重组流抗货号	克隆号
Mouse	CD19	98287-1-RR	242301C6

CD3 (T 细胞)

传统克隆重组化流抗

传统杂交瘤流抗

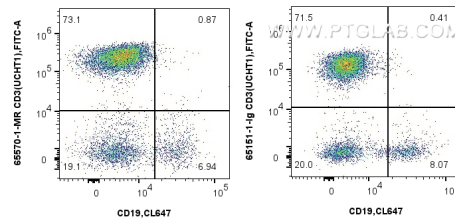


1x10⁶ human PBMCs were surface stained with 0.5 ug Anti-Human CD3 (OKT3) Mouse Recombinant Antibody (65569-1-MR, Clone: OKT3) (left) or 0.5 ug Anti-Human CD3 (OKT3) (65133-1-Ig, Clone: OKT3) (right) and CoraLite647-conjugated AffiniPure F(ab')₂ Fragment Donkey Anti-Rabbit IgG (H+L). Cells were co-stained with FITC Plus Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	CD3	65569-1-MR	OKT3

传统克隆重组化流抗

传统杂交瘤流抗



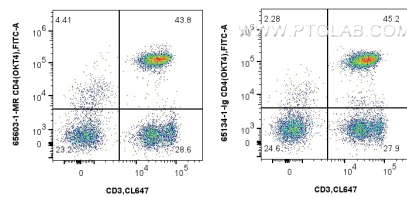
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD3 Mouse IgG2a Recombinant Antibody (65570-1-MR, Clone:UCHT1) (left) or 0.25 ug Anti-Human CD3 (65151-1-Ig, Clone: UCHT1) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	CD3	65570-1-MR	UCHT1

CD4 (T 细胞)

传统克隆重组化流抗

传统杂交瘤流抗



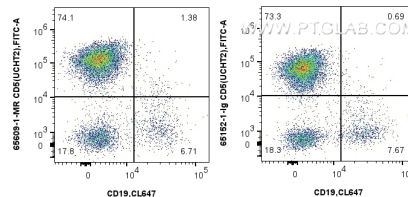
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD4 Mouse IgG2a Recombinant Antibody (65603-1-MR, Clone: OKT4) (left) or 0.25 ug Anti-Human CD4 (65134-1-Ig, Clone: OKT4) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	CD4	65603-1-MR	OKT4

CD5 (T 细胞)

传统克隆重组化流抗

传统杂交瘤流抗



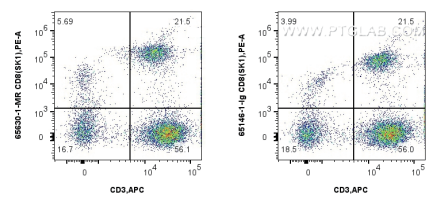
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD5 Mouse IgG2a Recombinant Antibody (65609-1-MR, Clone:UCHT2) (left) or 0.25 ug Anti-Human CD5 (65152-1-Ig, Clone: UCHT2) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD19. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	CD56	65609-1-MR	UCHT2

CD8 (T 细胞)

传统克隆重组化流抗

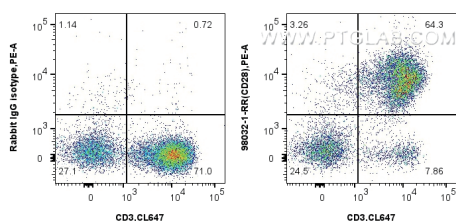
传统杂交瘤流抗



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD8 (SK1) Mouse IgG2a Recombinant Antibody (65630-1-MR, Clone:SK1) (left) or 0.25 ug Anti-Human CD8 (SK1) (65146-1-Ig, Clone: SK1) (right) and PE-conjugated Goat Anti-Mouse IgG. Cells were co-stained with APC Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	CD8	65630-1-MR	SK1

CD28 (T 细胞)

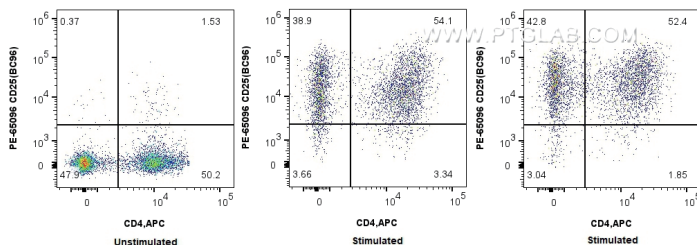


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD28 Rabbit Recombinant Antibody (98032-1-RR, Clone: 240354D2) or isotype Control and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	CD28	98032-1-RR	240354D2

全新克隆重组流抗

传统杂交瘤流抗

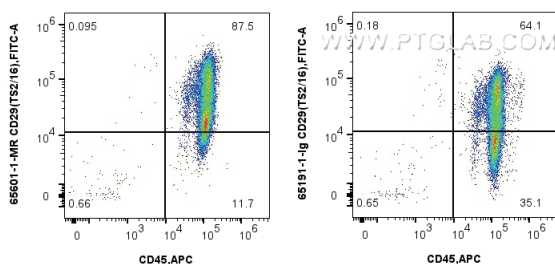


T cell activation efficacy was assessed by surface stained of human PBMCs with PE Anti-Human CD25. Cells were untreated (left) or treated with Anti-Human CD3 and Anti-Human CD28 Rabbit Recombinant Antibody (98032-1-RR, Clone: 240354D2) (mid) or Anti-Human CD28 (CD28.2) (65099-1-Ig, Clone: CD28.2) (right). Cells were co-stained with APC anti-Human CD4. Cells were not fixed.

CD29 (T 细胞 / 间充质干细胞)

传统克隆重组化流抗

传统杂交瘤流抗



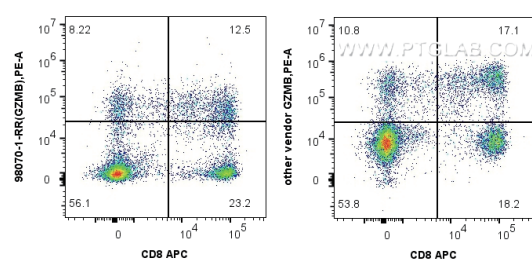
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD29 Mouse IgG2a Recombinant Antibody (65601-1-MR, Clone: TS2/16) (left) or 0.25 ug Anti-Human CD29 (TS2/16) (65191-1-Ig, Clone: TS2/16) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with APC Anti-Human CD45. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

物种	检测靶点	重组流抗货号	克隆号
Human	CD29	65601-1-MR	TS2/16

Granzyme B (T 细胞)

全新克隆重组流抗

传统杂交瘤流抗*



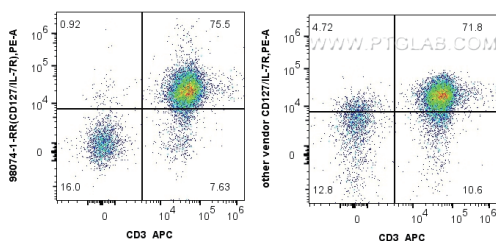
1x10⁶ human PBMCs were intracellularly stained with 0.25 ug Anti-Human Granzyme B Rabbit Recombinant Antibody (98070-1-RR, Clone: 240761G4) or isotype control and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG. Cells were co-stained with APC Anti-Human CD8a. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.

物种	检测靶点	重组流抗货号	克隆号
Human	Granzyme B	98070-1-RR	240761G4

IL-7Ra/CD127 (T 细胞)

全新克隆重组流抗

传统杂交瘤流抗*



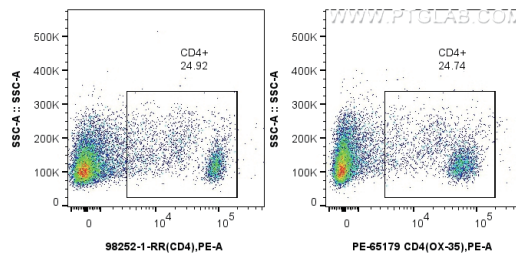
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human IL-7Ra/CD127 Rabbit Recombinant Antibody (98074-1-RR, Clone: 240749H2) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Human IL-7Ra/CD127 (right). Cells were co-stained with APC Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.

物种	检测靶点	重组流抗货号	克隆号
Human	IL-7Ra/CD127	98074-1-RR	240749H2

CD4 (T 细胞)

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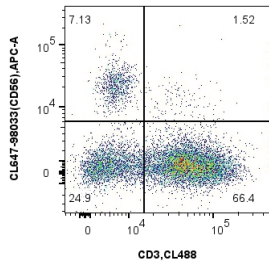


1x10⁶ rat splenocytes cells were surface stained with 0.25 ug Anti-Rat CD4 Rabbit RecAb (98252-1-RR, Clone: 241955C11) and PE-Conjugated Goat Anti-Rabbit IgG(H+L)(left), or 0.25 ug PE Anti-Rat CD4 (OX-35) (Clone: OX-35)(right). Cells were not fixed.

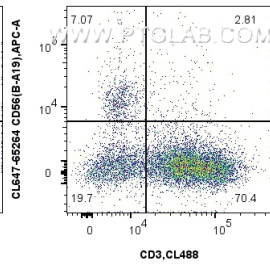
物种	检测靶点	重组流抗货号	克隆号
Rat	CD4	98252-1-RR	241955C11

CD56 (NK 细胞)

全新克隆重组流抗



传统杂交瘤流抗



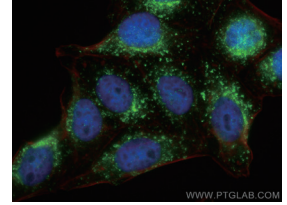
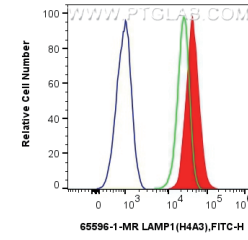
1x10⁶ human peripheral blood leukocytes were surface stained with CoraLite® Plus 488 Anti-Human CD3 and 5 ul CoraLite® Plus 647 Anti-Human CD56 Rabbit Recombinant Antibody (CL647-98033, Clone:240078A7) (left) or CoraLite® Plus 647 Anti-Human CD56 (B-A19) (CL647-65264, Clone: B-A19) (right). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

物种	检测靶点	重组流抗货号	克隆号
Human	CD56	CL647-98033	240078A7

CD107a / LAMP1 (NK 细胞)

红色：传统克隆重组化流抗

绿色：传统杂交瘤流抗

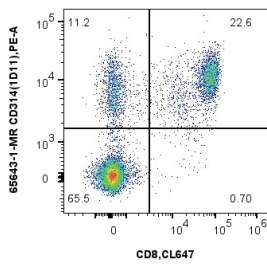


1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug Anti-Human CD107a / LAMP1 (H4A3) Mouse IgG2a Recombinant Antibody (65596-1-MR, Clone:H4A3) (red) or Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue) or 0.25 ug Anti-Human CD107a / LAMP1 (H4A3) (65051-1-Ig, Clone: H4A3) (green) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.

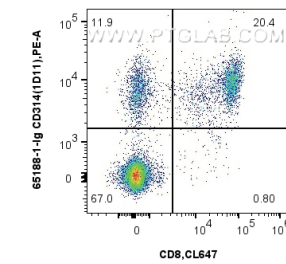
物种	检测靶点	重组流抗货号	克隆号
Human	CD107a / LAMP1	65596-1-MR	H4A3

CD314/NKG2D (NK 细胞)

传统克隆重组化流抗



传统杂交瘤流抗

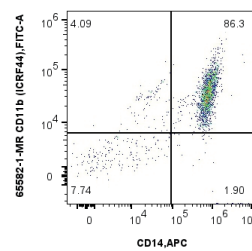


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD314/NKG2D (ID11) Mouse IgG2a Recombinant Antibody (65643-1-MR, Clone:ID11) (left) or 0.25 ug Anti-Human CD314/NKG2D (ID11) (65188-1-Ig, Clone: ID11) (right) and PE-conjugated Goat Anti-Mouse IgG. Cells were co-stained with CoraLite® Plus 647 Anti-Human CD8. Cells were not fixed. Lymphocytes were gated.

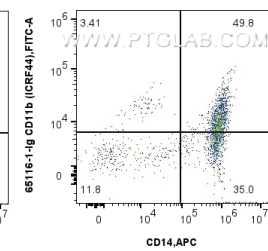
物种	检测靶点	重组流抗货号	克隆号
Human	CD314/NKG2D	65643-1-MR	ID11

CD11b (单核细胞 / 巨噬细胞)

传统克隆重组化流抗



传统杂交瘤流抗

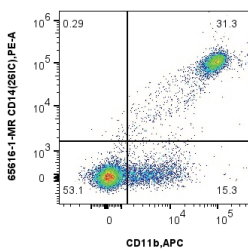


1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CD11b Mouse IgG2a Recombinant Antibody (65582-1-MR, Clone:ICRF44) (left) or 0.25 ug Anti-Human CD11b (65116-1-Ig, Clone: ICRF44) (right) and CoraLite®488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed. Monocytes were gated.

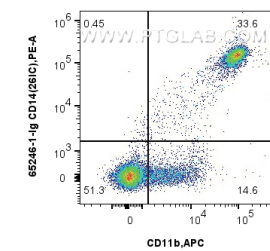
物种	检测靶点	重组流抗货号	克隆号
Human	CD11b	65582-1-MR	ICRF44

CD14 (单核细胞 / 巨噬细胞)

传统克隆重组化流抗



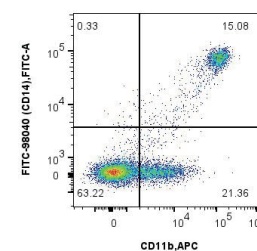
传统杂交瘤流抗



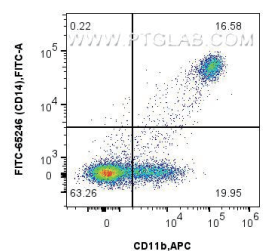
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD14 (26IC) Mouse IgG2a Recombinant Antibody (65616-1-MR, Clone:26IC) or 0.25 ug Anti-Human CD14 (26IC) (65246-1-Ig, Clone: 26IC) and PE-conjugated Goat Anti-Mouse IgG. Cells were co-stained with APC Anti-Human CD11b. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

物种	检测靶点	重组流抗货号	克隆号
Human	CD14	65616-1-MR	26IC

全新克隆重组流抗



传统杂交瘤流抗

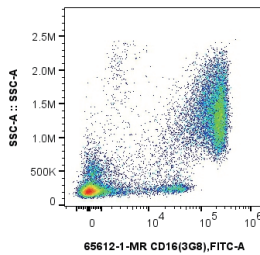


1x10⁶ human PBMCs were surface stained with APC Anti-Human CD11b (ICRF44) (APC-65116, Clone: ICRF44) and 5 ul FITC Plus Anti-Human CD14 Rabbit RecAb (FITC-98040, Clone:230332D7) (left), or 5 ul FITC Plus Anti-Human CD14 (26IC) (FITC-65246, Clone: 26IC) (right). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

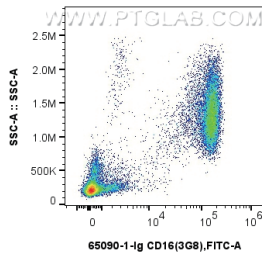
物种	检测靶点	重组流抗货号	克隆号
Human	CD14	FITC-98040	230332D7

CD16 (单核细胞 / 巨噬细胞)

传统克隆重组化流抗



传统杂交瘤流抗

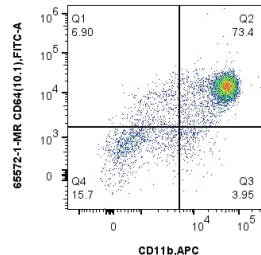


1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CD16 Mouse IgG2a Recombinant Antibody (65612-1-MR, Clone: 3G8) (left) or 0.25 ug Anti-Human CD16 (65090-1-Ig, Clone: 3G8) (right) and CoraLite[®]488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L) (right). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

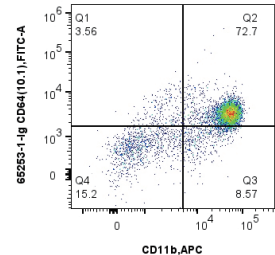
物种	检测靶点	重组流抗货号	克隆号
Human	CD16	65612-1-MR	3G8

CD64 (单核细胞)

传统克隆重组化流抗



传统杂交瘤流抗

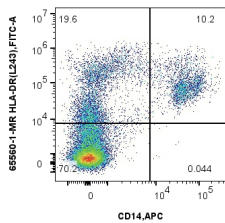


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD64 Mouse IgG2a Recombinant Antibody (65572-1-MR, Clone: 10.1) (left) or 0.25 ug Anti-Human CD64 (65253-1-Ig, Clone: 10.1) (right) and CoraLite[®]488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

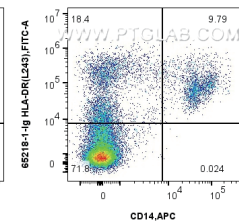
物种	检测靶点	重组流抗货号	克隆号
Human	CD64	65572-1-MR	10.1

HLA-DR (单核细胞)

传统克隆重组化流抗



传统杂交瘤流抗

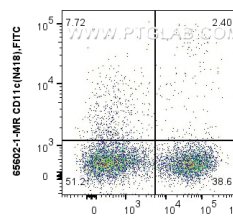


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human HLA-DR Mouse IgG2a Recombinant Antibody (65560-1-MR, Clone: L243) (left) or 0.25 ug Anti-Human HLA-DR (65218-1-Ig, Clone: L243) (right) and CoraLite[®]488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

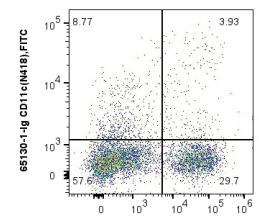
物种	检测靶点	重组流抗货号	克隆号
Human	HLA-DR	65560-1-MR	L243

CD11c (单核细胞 / 巨噬细胞)

传统克隆重组化流抗



传统杂交瘤流抗

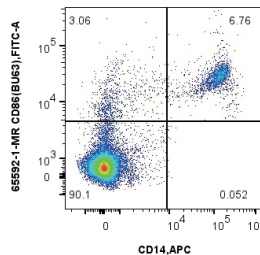


1x10⁶ mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD11c (N418) Mouse IgG2a Recombinant Antibody (65602-1-MR, Clone: N418) and FITC anti-Mouse IgG2a Antibody (left) or 0.25 ug Anti-Mouse CD11c (N418) (65130-1-Ig, Clone: N418) and FITC anti-Armian Hamster IgG Antibody (right). Cells well co-stained with APC Anti-Mouse MHC Class II (I-A/I-E). Cells were not fixed.

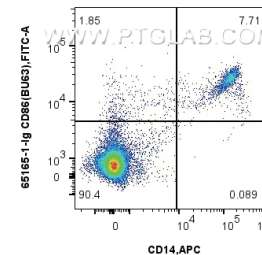
物种	检测靶点	重组流抗货号	克隆号
Mouse	CD11c	65602-1-MR	N418

CD86 (巨噬细胞)

传统克隆重组化流抗



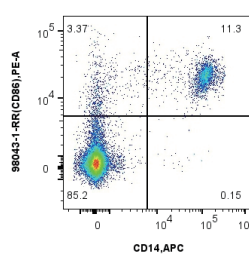
传统杂交瘤流抗



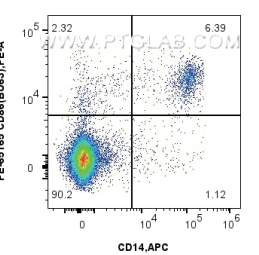
1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD86 Mouse IgG2a Recombinant Antibody (65592-1-MR, Clone: BU63) (left) or 0.25 ug Anti-Human CD86 (65165-1-Ig, Clone: BU63) (right) and CoraLite[®]488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

物种	检测靶点	重组流抗货号	克隆号
Human	CD86	65592-1-MR	BU63

全新克隆重组化流抗



传统杂交瘤流抗

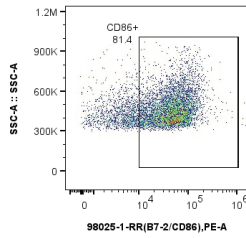


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD86 Rabbit Recombinant Antibody (98043-1-RR, Clone: 240429C6) and PE-conjugated Goat Anti-Rabbit IgG (left) or 0.25 ug PE Anti-Human CD86 (PE-65156, clone: BU63) (right). Cells were co-stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

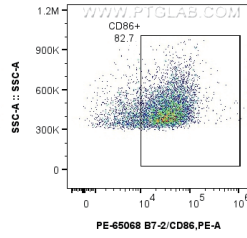
物种	检测靶点	重组流抗货号	克隆号
Human	CD86	98043-1-RR	240429C6

CD86（单核细胞 / 巨噬细胞）

全新克隆重组流抗



传统杂交瘤流抗

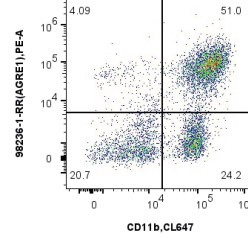


1x10⁶ LPS treated mouse splenocytes were surface stained with 0.25 ug Anti-Mouse CD86 Rabbit Recombinant Antibody (98025-1-RR, Clone: 230476B8) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG (left), or 0.25 ug PE Anti-Mouse CD86 (GL1) (PE-65068, Clone: GL1)(right). Cells were not fixed.

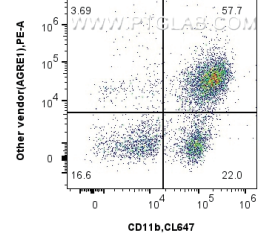
物种	检测靶点	重组流抗货号	克隆号
Mouse	CD86	98025-1-RR	230476B8

F4/80（巨噬细胞）

全新克隆重组流抗



传统杂交瘤流抗*

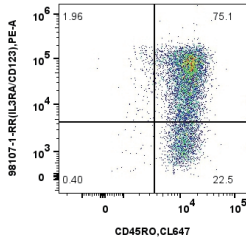


1x10⁶ mouse peritoneal macrophages were surface stained with 0.25 ug Anti-Mouse AGRE1(F4/80) Rabbit Recombinant Antibody (98236-1-RR, Clone: 241959G4) and PE-Conjugated Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Mouse AGRE1(F4/80) (right). Cells were co-stained with CoraLite® Plus 647 Anti-Mouse CD11b. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

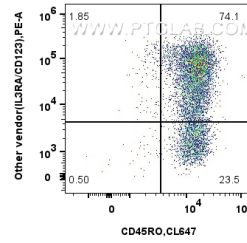
物种	检测靶点	重组流抗货号	克隆号
Mouse	F4/80	98236-1-RR	241959G4

IL3RA/CD123（树突状细胞）

全新克隆重组流抗



传统杂交瘤流抗*

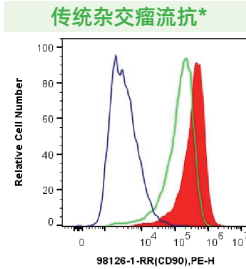


1x10⁶ human immature monocyte-derived dendritic cells were surface stained with 0.25 ug Anti-Human IL3RA/CD123 Rabbit Recombinant Antibody (98107-1-RR, Clone: 241268E3) and PE-Conjugated Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Human IL3RA/CD123 (right). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD45RO. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

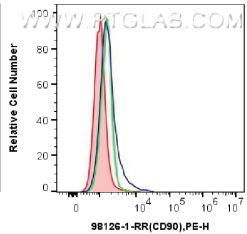
物种	检测靶点	重组流抗货号	克隆号
Human	IL3RA/CD123	98107-1-RR	241268E3

CD90（间充质干细胞）

全新克隆重组流抗



传统杂交瘤流抗*

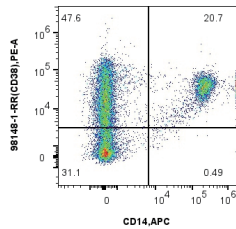


1x10⁶ Hel 92.1.7 cells (left) or K562 cells (right) were surface stained with 0.25 ug Anti-Human CD90 Rabbit Recombinant Antibody (98126-1-RR, Clone: 241290B2) (red) or isotype control (blue) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG, or 0.25 ug other vendor PE Anti-Human CD90 (green). Cells were not fixed.

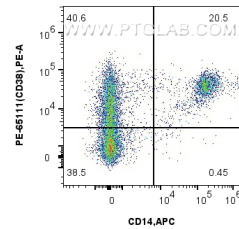
物种	检测靶点	重组流抗货号	克隆号
Human	CD90	98126-1-RR	241290B2

CD38（造血干细胞）

全新克隆重组流抗



传统杂交瘤流抗

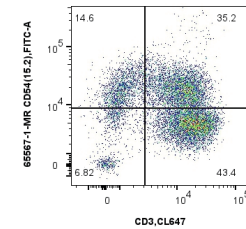


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD38 Rabbit Recombinant Antibody (98148-1-RR, Clone: 241246F9) and PE-Conjugated Goat Anti-Rabbit IgG (left) or 0.25 ug PE Anti-Human CD38 (HIT2) (PE-65111, Clone: HIT2) (right). Cells were co-stained with APC Anti-Human CD14. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

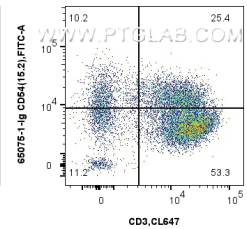
物种	检测靶点	重组流抗货号	克隆号
Human	CD38	98148-1-RR	241246F9

ICAM-1/CD54（内皮细胞）

传统克隆重组化流抗



传统杂交瘤流抗

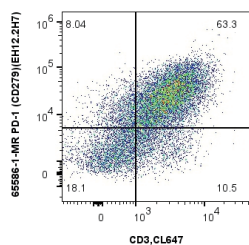


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD54 Mouse IgG2a Recombinant Antibody (65567-1-MR, Clone: 15.2) (left) or 0.25 ug Anti-Human CD54 (ICAM-1) (65075-1-Ig, Clone: 15.2) (right) and CoraLite® 488-Conjugated AffiniPure Donkey Anti-Mouse IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.

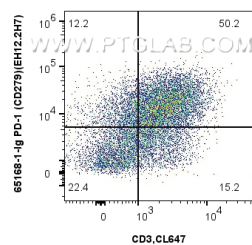
物种	检测靶点	重组流抗货号	克隆号
Human	ICAM-1/CD54	65567-1-MR	15.2

PD-1/CD279 (其他)

传统克隆重组化流抗



传统杂交瘤流抗

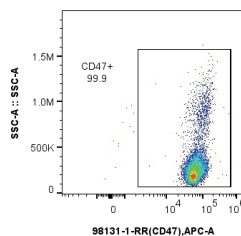


1x10⁶ PHA stimulated human PBMCs were surface stained with 0.25 ug Anti-Human PD-1 (CD279) Mouse IgG2a Recombinant Antibody (65586-1-MR, Clone: EH12.2H7) (left) or 0.25 ug Anti-Human PD-1/CD279 (65168-1-Ig, Clone: EH12.2H7) (right) and CoraLite[®] Plus 647 Anti-Human CD3. Cells were co-stained with CoraLite[®] Plus 647 Anti-Human CD3. Cells were not fixed.

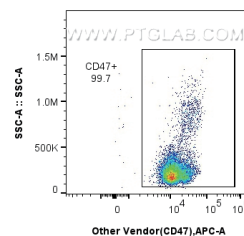
物种	检测靶点	重组流抗货号	克隆号
Human	PD-1/CD279	65586-1-MR	EH12.2H7

CD47 (其他)

全新克隆重组流抗



传统杂交瘤流抗*

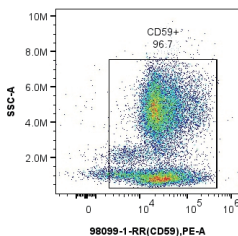


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD47 Rabbit Recombinant Antibody (98131-1-RR, Clone: 240997D8) and CoraLite[®] Plus 647 Goat Anti-Rabbit Recombinant Secondary Antibody (left) or 0.25 ug other vendor Alexa Fluor[®] 647 Anti-Human CD47 (right). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

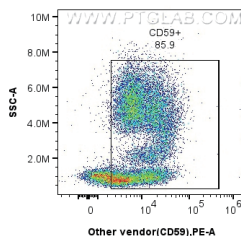
物种	检测靶点	重组流抗货号	克隆号
Human	CD47	98131-1-RR	240997D8

CD59 (其他)

全新克隆重组流抗



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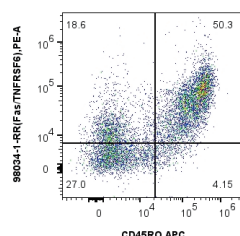


1x10⁶ human peripheral blood leukocytes were surface stained with 0.25 ug Anti-Human CD59 Rabbit Recombinant Antibody (98099-1-RR, Clone: 241311A4) and PE-conjugated Goat Anti-Rabbit IgG (left) or 0.25ug other vendor PE Anti-Human CD59 (right). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.

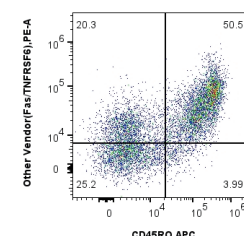
物种	检测靶点	重组流抗货号	克隆号
Human	CD59	98099-1-RR	241311A4

Fas/CD95 (其他)

全新克隆重组流抗



传统杂交瘤流抗*

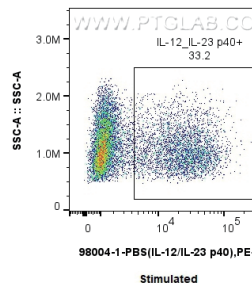
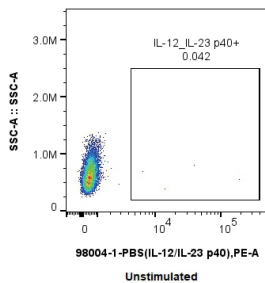


1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human Fas/CD95 Rabbit Recombinant Antibody (98034-1-RR, Clone: 240340E11) and PE-conjugated AffiniPure Goat Anti-Rabbit IgG (left) or 0.25 ug other vendor PE Anti-Human Fas/CD95. Cells were co-stained with APC Anti-Human CD45RO. Cells were not fixed. Lymphocytes were gated.

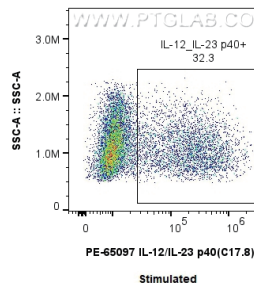
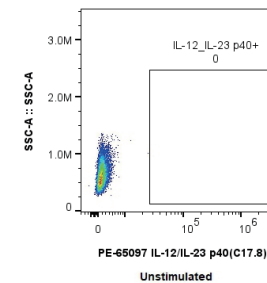
物种	检测靶点	重组流抗货号	克隆号
Human	Fas/CD95	98034-1-RR	240340E11

IL-12/IL-23 p40 (细胞因子)

全新克隆重组流抗



传统杂交瘤流抗



1X10⁶ unstimulated or IFN γ and LPS treated (in the presence of protein transport inhibitors) RAW 264.7 cells were intracellularly stained with 0.25 ug Anti-Mouse IL-12/IL-23 p40 (98004-1-RR, Clone: 230037C9) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.

物种	检测靶点	重组流抗货号	克隆号
Mouse	IL-12/IL-23 p40	98004-1-RR	230037C9

Proteintech流式荧光染料

荧光染料有强弱差别。根据抗原表达强弱合理选择荧光染料。原则上高表达抗原可以用任何荧光染料标记的抗体检测，低表达的抗原需要用较亮的荧光染料检测。

多色搭配时，亮度高的荧光染料用于低表达的蛋白，亮度较弱的用于高表达蛋白，如 CD45。

Proteintech 可提供十余种荧光染料，同时完成十余色的多色流式方案。（持续上新中）

激光	检测通道	通道别名	Proteintech 荧光染料	亮度
Violet 405 nm	● 445/45	Pacific Blue	CoraLite® Plus 405	++
	● 525/45	AmCyan	CoraLux™ Violet 510	+++
Blue 488 nm	● 525/45	FITC	CoraLite® Plus 488	+++
			FITC Plus	++
	● 586/20	PE	PE	++
	● 667/30	PE-Cy5	PE-Cyanine 5	++
		PerCP	PerCP	++
	● 695/40	PE-Cy5.5	PE-Cyanine 5.5	++
		PerCP-Cy5.5	PerCP-Cyanine5.5	++
	● 780/60	PE-Cy7	PE-Cyanine7	+++
Yellow 561 nm	● 586/20	PE	PE	+++++
	● 615/20	PE-Texas Red	CoraLite® 594	+++
	● 667/30	PE-Cy5	PE-Cyanine 5	++++
	● 695/40	PE-Cy5.5	PE-Cyanine 5.5	++++
	● 780/60	PE-Cy7	PE-Cyanine7	++++
	● 667/30	APC	CoraLite® plus 647	++++
			APC	++++
	● 725/40	Alexa Fluor 700	CoraLite® 700	++
Red 637 nm	● 780/60	APC-Cy7	CoraLite® Plus 750	++
			APC-Cyanine7	+++

CoraLite®系列是Proteintech公司自有的荧光染料。它具有良好的光稳定性、发光强度以及较宽的pH适应性，能完美胜任科研实验要求。

注意：

- ① 根据仪器选择荧光染料，要能被仪器上的激发光激发，发射光在滤光片的接收范围内，每个通道只能选一种荧光染料；
- ② 搭配的荧光染料之间发射光谱重叠尽量小，如FITC/PE-Cy7；
- ③ 选择不同激光激发的荧光素或荧光蛋白，如FITC/APC，PE/APC；
- ④ 避免反复冻融，避光保存，防止荧光衰退。
- ⑤ 在固定和通透过程中，甲醛或甲醇等试剂会导致蛋白荧光团（如PE和APC）以及包含蛋白荧光的复合染料失去部分或全部荧光。而FITC和CoraLite®染料等小分子荧光团可与这样的试剂兼容不受影响。

甲醛/甲醇等试剂使用前后均可适用的荧光染料如下：

◆ CoraLite® dyes ◆ CoraLite® Plus dyes ◆ FITC Plus等

仅在甲醛/甲醇等试剂后使用的荧光染料如下：

◆ APC、APC-Cy7、APC-AF750 ◆ PE、PE-Cy5、PE-Cy7 ◆ PerCP、PerCP-Cy5.5等

Proteintech推荐使用我们的Spectra Viewer设计和规划您的实验

路径：

Proteintech中文官网ptgcn.com / 产品中心 / 流式抗体 / 光谱查看器



扫码了解流式细胞术中荧光补偿调节和圈门策略



流式细胞实验辅助试剂

1. 死活细胞鉴定染料

在流式细胞术实验过程中，死细胞容易摄取抗体导致明显的非特异性染色，而且死细胞比活细胞有更强的自发荧光从而会导致背景荧光增强，难以识别罕见细胞群和弱阳性指标。同时，死细胞中释放的核酸物质也会导致细胞成团，影响结果，堵塞管路。因此通常会使用死活细胞鉴定染料区分死活细胞。

Proteintech死活细胞鉴定染料

激光(nm)	死活细胞染料产品名称	货号	激光(nm)	死活细胞染料产品名称	货号
488/561	7-AAD死活细胞鉴定染料	PD00101	405	Phantom Dye Violet 450 死活细胞鉴定染料	PD00004
633-647	Phantom Dye Red 710 死活细胞鉴定染料	PD00001	405	Phantom Dye Violet 510 死活细胞鉴定染料	PD00005
633	Phantom Dye Red 780 死活细胞鉴定染料	PD00002	405	Phantom Dye Violet 540 死活细胞鉴定染料	PD00006
			488	Phantom Dye Blue 516 死活细胞鉴定染料	PD00007

2. 样本制备试剂

Proteintech 提供一系列流式细胞术实验样本制备相关辅助试剂。

应用	产品名称	货号	应用	产品名称	货号
红细胞裂解液	红细胞裂解液（无菌）	PR30017	固定和通透	流式细胞固定液	PF00016
	红细胞裂解液（10X）	PF00014		流式细胞通透剂	PF00017
	红细胞裂解液（1X）	PF00015		Foxp3 / Transcription Factor Staining Buffer Kit	PF00011
小分子化合物（刺激样本）	PMA（CAS：16561-29-8）	CM00437		流式检测磷酸化蛋白固定通透试剂盒	PF00026
	Brefeldin A（CAS：20350-15-6）	CM03062	Fc受体封闭抗体	Anti-Mouse CD16/32 (93)	65057-1-Ig
	Ionomycin（CAS：56092-81-0）	CM06928		Anti-Mouse CD16/32 (2.4G2)	65080-1-Ig
	Monensin sodium salt（CAS：22373-78-0）	CM00375			

3. 链霉亲和素偶联物

Proteintech 的链霉亲和素偶联物是荧光标记物和链霉亲和素通过共价键结合的偶联产物，可与 Biotin 标记的蛋白联用进行各种免疫荧光信号检测。

产品名称	货号	产品名称	货号
R-藻红蛋白-链霉亲和素偶联物	PF00021	CoraLite® Plus 488 链霉亲和素偶联物	PF00023
别藻蓝蛋白-链霉亲和素偶联物	PF00022	CoraLite® 594 链霉亲和素偶联物	PF00024
CoraLite®Plus 405 链霉亲和素偶联物	PF00028	CoraLite®Plus 647 链霉亲和素偶联物	PF00025

4. 细胞活性检测试剂盒

使用细胞活性检测试剂盒可以快速用流式细胞术分析细胞凋亡，区分活细胞及死细胞。

应用	产品名称	货号
细胞凋亡检测	CoraLite® Plus 488-Annexin V 和 PI 细胞凋亡检测试剂盒	PF00005
	CoraLite® Plus 488 TUNEL 凋亡检测试剂盒（绿色荧光）	PF00006
	CoraLite®594 TUNEL 凋亡检测试剂盒（红色荧光）	PF00009
活 / 死细胞检测	活 / 死细胞染色试剂盒 (Calcein AM, PI 法)	PF00007
	活 / 死细胞染色试剂盒 (Calcein AM, EthD-1 法)	PF00008





READING THE BOOK OF LIFE



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