

For Research Use Only

Anti-Mouse CD16/CD32 (93)

Catalog Number: 65057-1-Ig **8 Publications**



Basic Information

Catalog Number:

65057-1-Ig

Concentration:

500ug, 0.5 mg/ml

Source:

Rat

Isotype:

IgG2a, lambda

GenBank Accession Number:

BC038070

GeneID (NCBI):

14130

UNIPROT ID:

P08101

Full Name:

Fc receptor, IgG, low affinity IIb

Purification Method:

Protein G purification

CloneNo.:

93

Recommended Dilutions:

FC: 0.5 ug per 10⁶ cells in 100 μ l suspension

Applications

Tested Applications:

FC

Cited Applications:

IF, FC

Species Specificity:

mouse

Cited Species:

mouse

Positive Controls:

FC : C57BL/6 mouse splenocytes,

Background Information

CD16 (Fc γ RIII) is a 50-70 kDa low affinity Fc receptor found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16 mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. CD32 (Fc γ RII) is a 40 kD transmembrane glycoprotein that binds to the Fc region of IgG with low affinity. CD32 is present on phagocytic cells such as macrophages and neutrophils, and is involved in the process of phagocytosis and clearing of immune complexes. Rat anti mouse CD16/32 antibody, clone 93 is specific to the common epitope of CD16 and CD32. It can be used for blocking non-specific binding of immunoglobulins to the Fc receptors by preincubating the cells with the purified antibody at 1 ug per million cells in 100 μ l volume for 5-10 minutes prior to immunostaining.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------|-----------|----------------|-------------|
| Hongbing Lin | 36114617 | Stem Cells Dev | FC |
| Lv Dingyi | 38896294 | Exp Brain Res | IF |
| Jiao Guo | 38827172 | Bioact Mater | FC |

Storage

Storage:

Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

For technical support and original validation data for this product please contact:

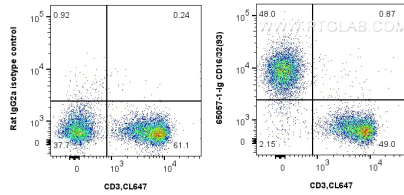
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Selected Validation Data



1X10⁶ C57BL/6 mouse splenocytes were surface stained with 0.5 ug Anti-Mouse CD16/32 (65057-1-Ig, Clone: 93) and FITC anti-rat IgG2a Antibody at dilution 1:100, or 0.5 ug Rat IgG2a Isotype Control (2A3) (65209-1-Ig, Clone: 2A3) and FITC anti-rat IgG2a Antibody at dilution 1:100. Cells were co-stained with CoraLite® Plus 647 Anti-Mouse CD3 (17A2) (CL647-65077, Clone: 17A2). Cells were not fixed.