

For Research Use Only

CD34 Monoclonal antibody

Catalog Number: 60180-1-Ig **26 Publications**



Basic Information

Catalog Number: 60180-1-Ig	GenBank Accession Number: BC039146	Purification Method: Protein A purification
Concentration: 1400 ug/ml	GeneID (NCBI): 947	CloneNo.: 3C8G12
Source: Mouse	UNIPROT ID: P28906	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:2500-1:10000 IF-P: 1:200-1:800
Isotype: IgG2b	Full Name: CD34 molecule	
Immunogen Catalog Number: AG5996	Calculated MW: 41 kDa Observed MW: 105 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Cited Applications: IHC, IF	WB : human placenta tissue, human uterus tissue, human testis tissue
Species Specificity: human	IHC : human liver cancer tissue, human placenta tissue, human tonsillitis tissue
Cited Species: human	IF-P : human placenta tissue, human tonsillitis tissue, human liver cancer tissue, human liver tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CD34 is a 105- to 120-kDa glycoprophosphoprotein expressed on the majority of hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some nerve tissue. CD34 is a commonly used marker for identifying human hematopoietic stem/progenitor cells and mediates cell adhesion and lymphocyte homing by binding L-selectin and E-selectin ligands. CD34 is also one of the best negative selection markers for characterizing and/or isolating human MSCs from bone marrow and other sources. Along with other positive selection markers (such as CD29, CD44, CD90, CD105 and CD166), negative selection markers (such as CD34 and CD45) are used for MSC identification. The calculated molecular mass of human CD34 is 41 kDa, various forms with different molecular weights may be produced due to different glycosylation patterns and alternative splicing (PMID: 24375067; 15750786).

Notable Publications

Author	Pubmed ID	Journal	Application
Junjie Liu	34707701	Exp Ther Med	
Bin Zhu	34749775	J Exp Clin Cancer Res	IHC
Yue Yang	35711630	Front Bioeng Biotechnol	IHC

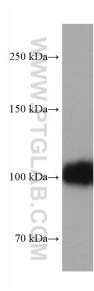
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

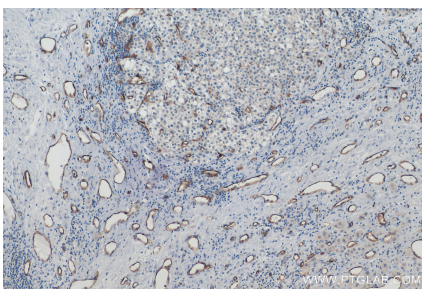
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

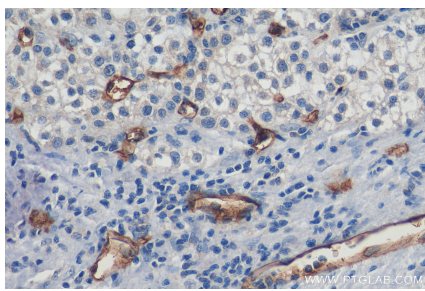
Selected Validation Data



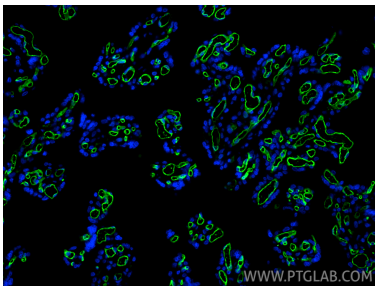
human placenta tissue were subjected to SDS PAGE followed by western blot with 60180-1-Ig (CD34 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



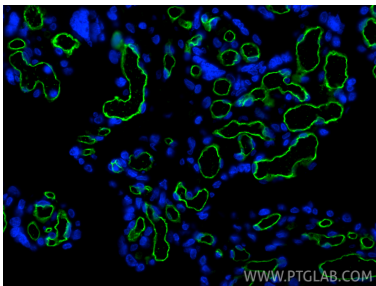
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



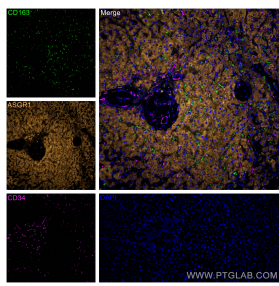
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human liver tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM005, magenta), ASGR1 antibody (11739-1-AP) labeled with FlexAble CoraLite Plus 555 Kit (KFA502, orange), CoraLite® Plus 488 CD163 antibody (CL488-16646, green). Heat mediated antigen retrieval with Tris-