

For Research Use Only

CD34 Monoclonal antibody, PBS Only

Catalog Number: 60180-1-PBS



Basic Information

Catalog Number: 60180-1-PBS	GenBank Accession Number: BC039146	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 947	CloneNo.: 3C8G12
Source: Mouse	UNIPROT ID: P28906	
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

Species Specificity:
human

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).

Storage

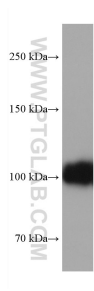
Storage:
Store at -80°C.

Storage Buffer:
PBS only

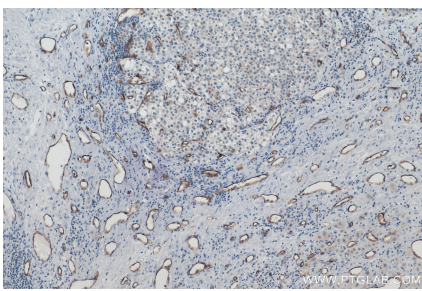
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

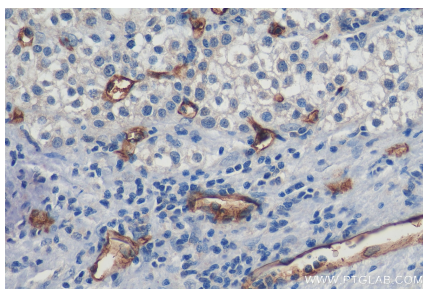
Selected Validation Data



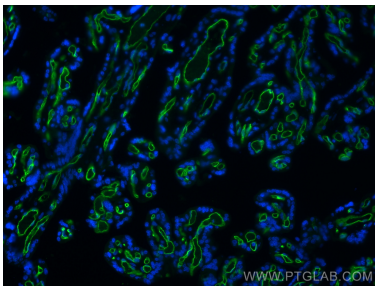
human placenta tissue were subjected to SDS PAGE followed by western blot with 60180-1-Ig (CD34 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60180-1-PBS in a different storage buffer formulation.



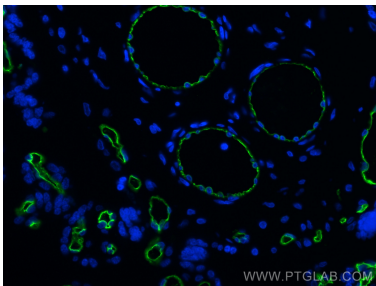
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60180-1-PBS in a different storage buffer formulation.



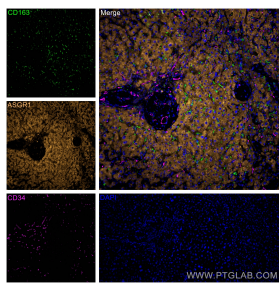
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60180-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60180-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60180-1-PBS in a different storage buffer formulation.



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