For Research Use Only

CD34 Monoclonal antibody, PBS Only

Catalog Number:60180-1-PBS 1 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
60180-1-PBS

Concentration:
1 mg/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG5996

GenBank Accession Number:
BC039146

GeneID (NCBI):
947

UNIPROT ID:
P28906

Full Name:
CD34 molecule

Calculated MW:
41 kDa

Observed MW:
105 kDa

Purification Method:
Protein A purification

CloneNo.:
3C8G12

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
IF

Species Specificity:
human

Cited Species:
human

Background Information

CD34 is a 105- to 120-kDa glycophosphoprotein 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

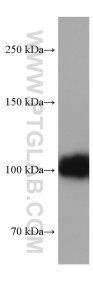
Author	Pubmed ID	Journal	Application
Bo-Xue Ren	40133628	Acta Pharmacol Sin	IF

Storage

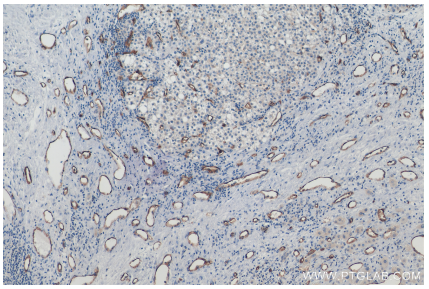
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

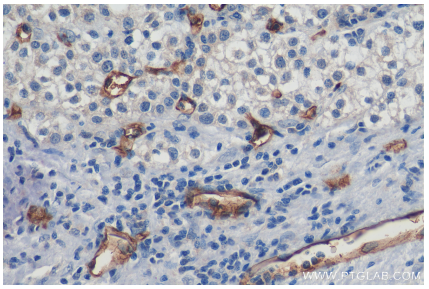
Selected Validation Data



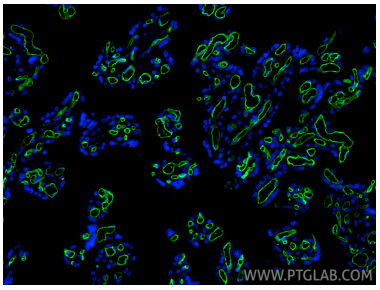
human placenta tissue were subjected to SDS PAGE followed by western blot with 60180-1-Ig (CD34 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60180-1-PBS in a different storage buffer formulation.



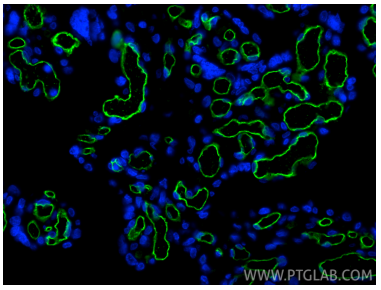
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60180-1-PBS in a different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



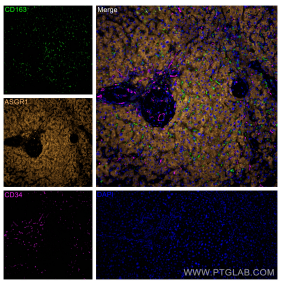
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 60180-1-PBS in a different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



Immunofluorescent analysis of (4% PFA) fixed 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). 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 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). 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 Tris-