CD34 Monoclonal antibody

Catalog Number:60180-1-Ig   26 Publications

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Basic Information

Catalog Number: 60180-1-Ig	
Concentration: 1400 ug/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

Recommended Dilutions:
WB 1:1000-1:4000
IHC 1:2500-1:10000
IF-P 1:200-1:800

Applications

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

Cited Applications:
IHC, IF

Species Specificity:
human

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human placenta tissue, human uterus tissue, human testis tissue

IHC : human liver cancer tissue, human placenta tissue, human tonsillitis tissue

IF-P : human placenta tissue, human tonsillitis tissue, human liver cancer tissue, human liver tissue

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
Junjie Liu	34707701	Exp Ther Med	FC
Bin Zhu	34749775	J Exp Clin Cancer Res	
Yue Yang	35711630	Front Bioeng Biotechnol	

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage
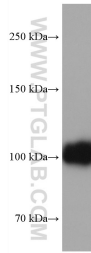
human placenta tissue were subjected to SDS PAGE followed by western blot with 60180-1-Ig (CD34 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.
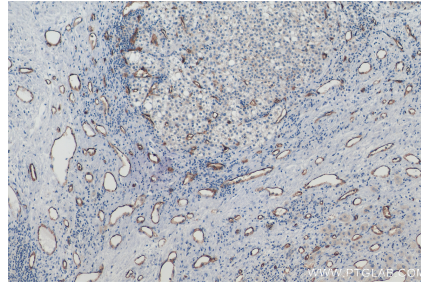

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
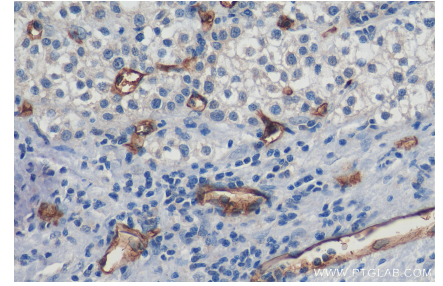

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 60180-1-Ig (CD34 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
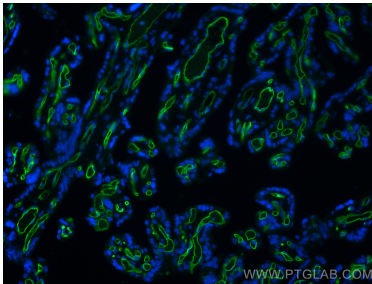
Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).
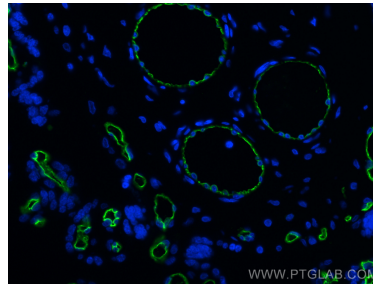
Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).
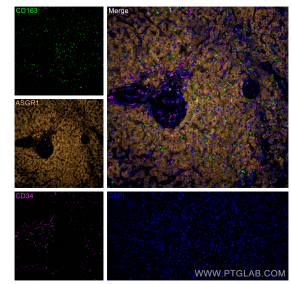
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human liver tissue using CD34 antibody (60180-1-Ig, Clone: 3C8G12) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM005, magenta), ASGR1 antibody (11739-1-AP) labeled with FlexAble CoraLite Plus 555 Kit (KFA502, orange), CoraLite® Plus 488 CD163 antibody (CL488-16646, green). Heat mediated antigen retrieval with Tris-