For Research Use Only

CD34 Polyclonal antibody

Catalog Number:14486-1-AP 88 Publications

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Basic Information

Catalog Number:
14486-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5887

GenBank Accession Number:
BC039146

GeneID (NCBI):
947

UNIPROT ID:
P28906

Full Name:
CD34 molecule

Calculated MW:
41 kDa

Observed MW:
100-120 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:3000
IHC: 1:1000-1:4000
IF-P: 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human, pig, rabbit, bovine, sheep

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 : HL-60 cells, TF-1 cells

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

IF-P : human tonsillitis tissue, human liver cancer tissue, human placenta 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
Kexin Ma	32961493	Ecotoxicol Environ Saf	WB
Ruidong Wan	34521949	Sci Rep	IHC
Zuping Wu	36068594	Stem Cell Res Ther	FC

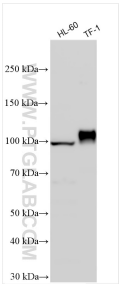
Storage

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

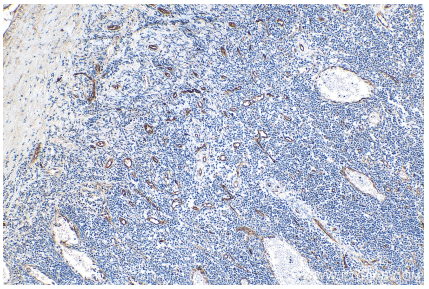
***** 20ul sizes contain 0.1% BSA**

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

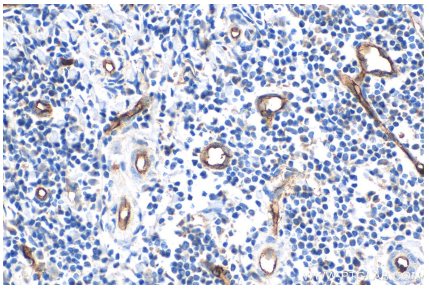
Selected Validation Data



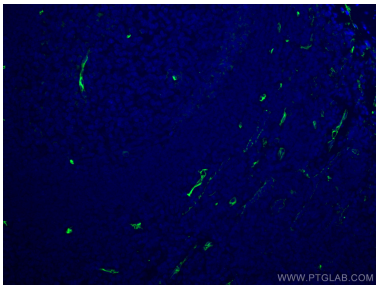
Various lysates were subjected to SDS PAGE followed by western blot with 14486-1-AP (CD34 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



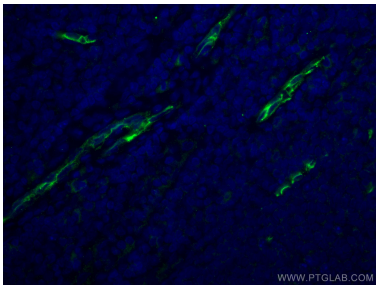
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14486-1-AP (CD34 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



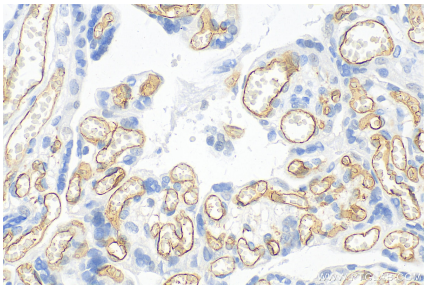
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14486-1-AP (CD34 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 14486-1-AP (CD34 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 14486-1-AP (CD34 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 14486-1-AP (CD34 antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).