

For Research Use Only

CD34 Polyclonal antibody

Catalog Number: 32211-1-AP



Basic Information

Catalog Number: 32211-1-AP	GenBank Accession Number: NM_001025109.2	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 947	Recommended Dilutions: WB 1:500-1:2000 IHC 1:1000-1:4000 IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: P28906-1	
Isotype: IgG	Full Name: CD34 molecule	
	Calculated MW: 41kDa	

Applications

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

Species Specificity:
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 : HL-60 cells,

IHC : human placenta tissue,

IF-P : human placenta tissue,

Background Information

CD34 is a 105- to 120-kDa glycoposphoprotein 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 -20°C. 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

*** 20ul sizes contain 0.1% BSA

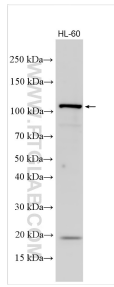
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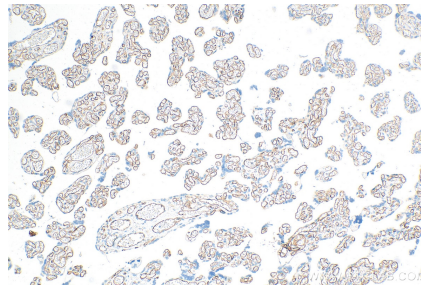
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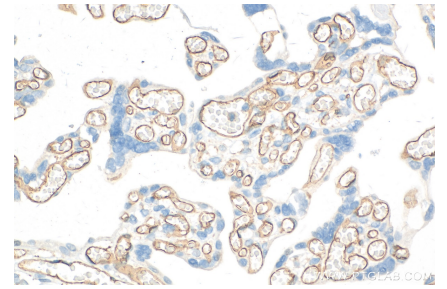
Selected Validation Data



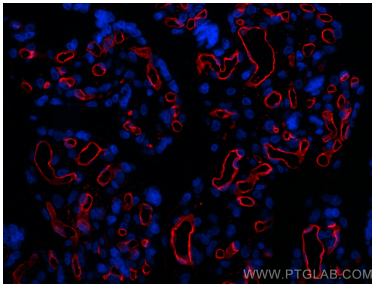
HL-60 cells were subjected to SDS PAGE followed by western blot with 32211-1-AP (CD34 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 32211-1-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 placenta tissue slide using 32211-1-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 paraffin-embedded human placenta tissue using CD34 antibody (32211-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).