

CD34 Polyclonal antibody

Catalog Number: 32211-1-AP

Basic Information

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| Catalog Number: 32211-1-AP | GenBank Accession Number: NM_001025109.2 | Purification Method: Antigen affinity purification |
| Concentration: 450 ug/ml | 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 | |
| Immunogen Catalog Number: EG1800 | Calculated MW: 41kDa Observed MW: 105 kDa | |

Applications

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|---|--------------------------------------|
| Tested Applications: WB, IHC, IF-P, ELISA | Positive Controls: |
| Species Specificity: human | WB : HL-60 cells, |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | IHC : human placenta tissue, |
| | IF-P : human placenta tissue, |

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 -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

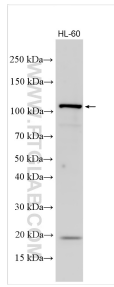
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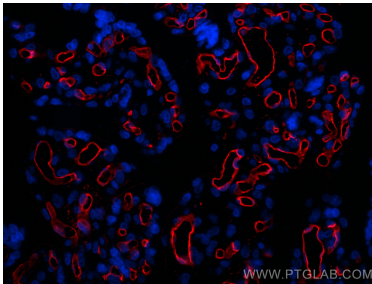
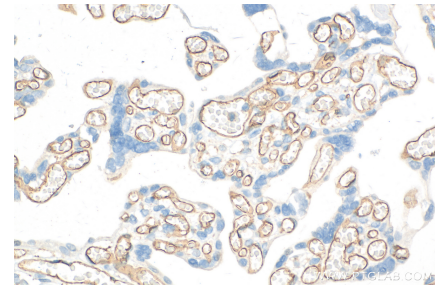
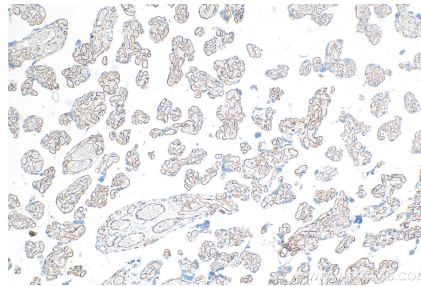
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Selected Validation Data



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.



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).