

For Research Use Only

CoraLite®594-conjugated CD34 Monoclonal antibody



Catalog Number:CL594-60180-2

Basic Information

Catalog Number: CL594-60180-2	GenBank Accession Number: BC039146	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 947	CloneNo.: 4F11H3
Source: Mouse	UNIPROT ID: P28906	Recommended Dilutions: IF-P 1:50-1:500
Isotype: IgG1	Full Name: CD34 molecule	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG5996	Calculated MW: 41 kDa	
	Observed MW: 105 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P : human placenta tissue,
Species Specificity: human	

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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

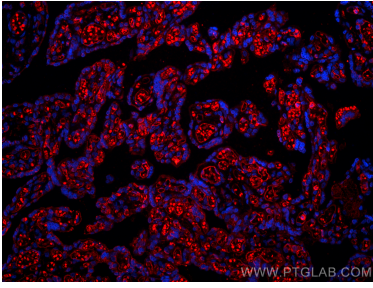
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CoraLite®594 CD34 antibody (CL594-60180-2, Clone: 4F11H3) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).