

For Research Use Only

# CoraLite®594-conjugated CD34 Monoclonal antibody



Catalog Number:CL594-60180-2

## Basic Information

<b>Catalog Number:</b> CL594-60180-2	<b>GenBank Accession Number:</b> BC039146	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 947	<b>CloneNo.:</b> 4F11H3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P28906	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> CD34 molecule	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG5996	<b>Calculated MW:</b> 41 kDa	
	<b>Observed MW:</b> 105 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : human placenta tissue,
<b>Species Specificity:</b> 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

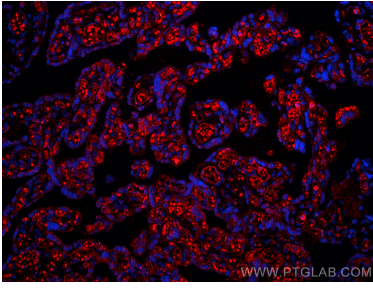
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## 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).