

For Research Use Only

# CD34 Monoclonal antibody

Catalog Number: 60180-2-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 60180-2-Ig	<b>GenBank Accession Number:</b> BC039146	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1200 ug/ml by 947 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> UNIPROT ID: P28906	<b>CloneNo.:</b> 4F11H3
<b>Source:</b> Mouse	<b>Full Name:</b> CD34 molecule	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IHC: 1:5000-1:20000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 41 kDa	
<b>Immunogen Catalog Number:</b> AG5996	<b>Observed MW:</b> 105 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, IF	<b>WB :</b> human placenta tissue, human ovary cancer cells, human uterus tissue, human testis tissue
<b>Species Specificity:</b> human	<b>IHC :</b> human tonsillitis tissue, human liver cancer tissue
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Dongfeng Sun	35832544	Front Oncol	IHC
Léa Pechtimaldjian	39709611	STAR Protoc	IF
Xiaoge Gao	36793021	BMC Cancer	

## Storage

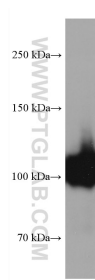
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

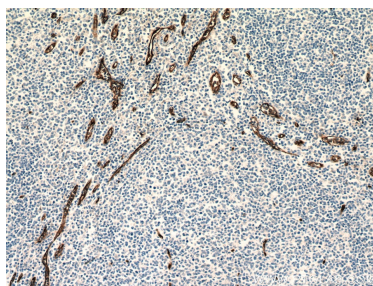
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

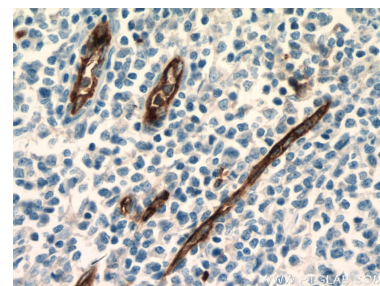
## Selected Validation Data



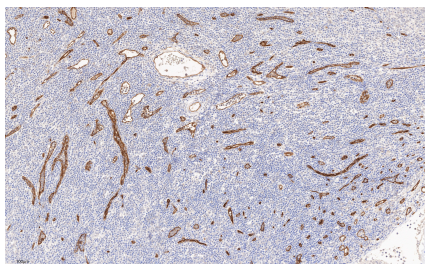
human placenta tissue were subjected to SDS PAGE followed by western blot with 60180-2-Ig (CD34 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60180-2-Ig (CD34 antibody) at dilution of 1:10000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60180-2-Ig (CD34 antibody) at dilution of 1:10000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60180-2-Ig (CD34 antibody) at dilution of 1:20000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).