

**CD34 Antibody (Center)**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1825a****Specification**

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**CD34 Antibody (Center) - Product Information**

Application	WB, IHC-P, IHC-P-Leica,E
Primary Accession	<a href="#">P28906</a>
Other Accession	<a href="#">NP_001764</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1κ
Antigen Region	185-214

**CD34 Antibody (Center) - Additional Information****Gene ID** 947**Other Names**

Hematopoietic progenitor cell antigen CD34, CD34, CD34

**Target/Specificity**

This CD34 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 185-214 amino acids from the Central region of human CD34.

**Dilution**

WB~~1:1000

IHC-P~~N/A

IHC-P-Leica~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD34 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD34 Antibody (Center) - Protein Information****Name** CD34

**Function** Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to selectins.

**Cellular Location**

Membrane; Single-pass type I membrane protein.

**Tissue Location**

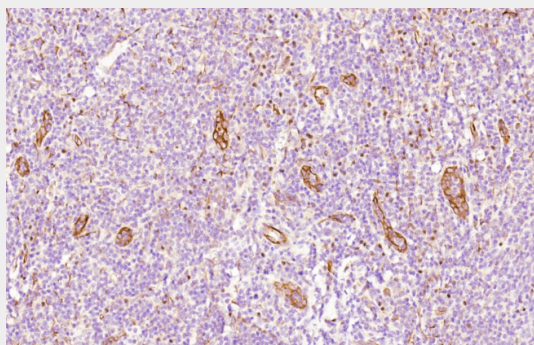
Selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues

**CD34 Antibody (Center) - Protocols**

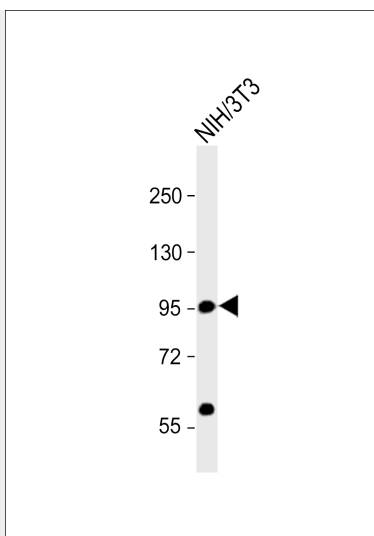
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

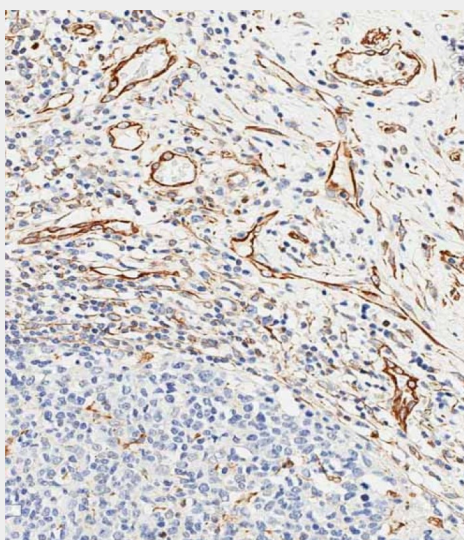
**CD34 Antibody (Center) - Images**



Immunohistochemical analysis of paraffin-embedded Human tonsil section using Pink1(Cat#AM1825a). AM1825a was diluted at 1:1000 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



"Anti-CD34 Antibody (Center) at 1:1000 dilution + NIH/3T3 whole cell lysate Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40716 Da Blocking/Dilution buffer: 5% NFDM/TBST."



Immunohistochemical analysis of paraffin-embedded human appendix tissue using AM1825a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:1000) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

#### **CD34 Antibody (Center) - Background**

CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells.

#### **CD34 Antibody (Center) - References**

Genome-wide association analysis identifies multiple loci related to resting heart rate. Eijgelsheim M, et al. Hum Mol Genet, 2010 Oct 1. PMID 20639392. The effect of CXCL12 processing on CD34+ cell migration in myeloproliferative neoplasms. Cho SY, et al. Cancer Res, 2010 Apr 15. PMID 20388788. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Junctional

adhesion molecule A expressed on human CD34+ cells promotes adhesion on vascular wall and differentiation into endothelial progenitor cells. Stellos K, et al. Arterioscler Thromb Vasc Biol, 2010 Jun. PMID 20378847. Human gallbladder carcinoma: Role of neurotrophins, MIB-1, CD34 and CA15-3. Artico M, et al. Eur J Histochem, 2010 Mar 11. PMID 20353905.

**CD34 Antibody (Center) - Citations**

- [Butaselen prevents hepatocarcinogenesis and progression through inhibiting thioredoxin reductase activity.](#)
- [Concurrent chemoradiotherapy with low-dose docetaxel inhibits the growth of DU-145 prostate cancer xenografts.](#)
- [Inhibition of PDGF, TGF- \$\beta\$ , and Abl signaling and reduction of liver fibrosis by the small molecule Bcr-Abl tyrosine kinase antagonist Nilotinib.](#)