

# CD34 Antibody (Center)

Purified Mouse Monoclonal Antibody (Mab)  
Catalog # AM1825a

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-P-Leica
<b>Primary Accession</b>	<a href="#">P28906</a>
<b>Other Accession</b>	<a href="#">NP_001764</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1k
<b>Clone Names</b>	132CT29.1.5
<b>Calculated MW</b>	40716
<b>Antigen Region</b>	185-214

## Additional Information

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<b>Gene ID</b>	947
<b>Other Names</b>	Hematopoietic progenitor cell antigen CD34, CD34, CD34
<b>Target/Specificity</b>	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.
<b>Dilution</b>	IHC-P-Leica~~1:1000 IHC-P~~1:100~500 WB~~1:500~1000
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	CD34 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CD34
<b>Function</b>	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

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**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.

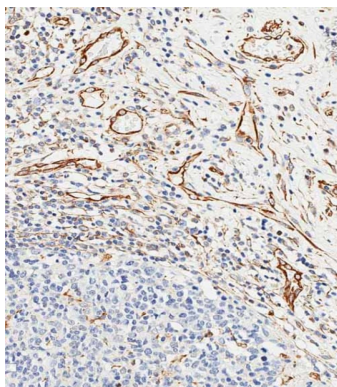
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**References**

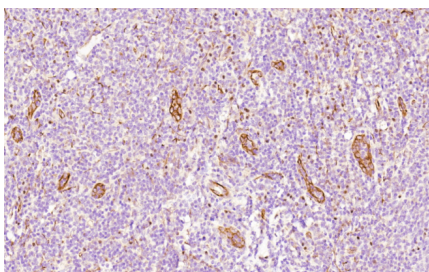
Genome-wide association analysis identifies multiple loci related to resting heart rate. Eijgelsheim M, et al. Hum Mol Genet, 2010 Oct 1. PMID 20639392. The effect of CXCL12 processing on CD34+ cell migration in myeloproliferative neoplasms. Cho SY, et al. Cancer Res, 2010 Apr 15. PMID 20388788. Personalized 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.

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**Images**

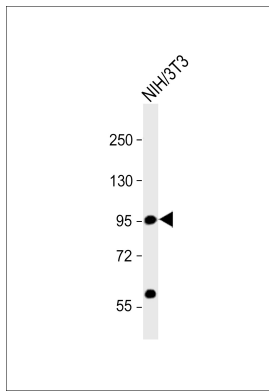


Immunohistochemical analysis of paraffin-embedded human appendix tissue using AM1825a performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature; antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody (1:1000) for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



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.



## Citations

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- [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.](#)

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