



## Anti-human CD34

20141008BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>102-PA139S</b>
Size:	100 µg
Lot. No.:	According to product label
Country of origin:	Germany

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant human sCD34 (Ser24-Gln223) derived from E. coli.

### Target Background

<b>Synonyms:</b>	Microvascular endothelial differentiation gene 1 protein, DnaJ homolog subfamily B member 9, ERdj4
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CD34 is a highly glycosylated type I membrane protein that is selectively expressed on hematopoietic stem cells and vascular endothelium. It has been widely used as a molecular marker for the identification, isolation, and manipulation of hemopoietic stem cells and progenitors. CD34 can function as a regulator of hemopoietic cell adhesion by mediating the attachment of stem cells to bone marrow stromal cells or other bone marrow components. The full length human CD34 is a 385 amino acid protein, consisting of a 31 amino acid signal sequence, a 74 amino acid cytoplasmic domain, a 21 amino acid transmembrane domain and a 259 amino acid extracellular domain.

### Database References Antigen

<b>Protein RefSeq:</b>	NP_001764.1
<b>Uniprot ID:</b>	P28906
<b>mRNA RefSeq:</b>	NM_001773.2

### Product Specifications

<b>Species reactivity</b>	human
<b>Clone/Ab feature</b>	rabbit IgG
<b>Cross reactivity</b>	n.d.
<b>Host</b>	rabbit
<b>Clonality</b>	polyclonal
<b>Purification</b>	Protein A purified
<b>Immunogen</b>	recombinant human sCD34 (RT #S01-069)
<b>Formulation</b>	Lyophilized
<b>Buffer</b>	5 mM PBS, pH 7.2

**Stability:** The lyophilized antibody is stable at room temperature for up to 1 month. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

**Reconstitution:** Centrifuge vial prior to opening. Reconstitute in sterile water to a concentration of 0.1-1.0 mg/ml.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

### References

1. Simmons DL et al, Immunol 148:267-271, 1992
2. Satterthwaite AB et al, Genomics 12:788-794, 1992)
3. Nakamura Y et al, Exp. Hematol. 21:236-242, 1993
4. Fackler MJ et al, J. Biol. Chem. 265:11056-11061, 1990

### Applications

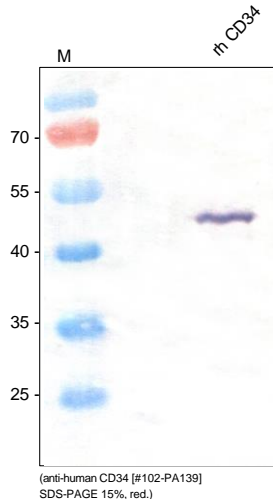
**Western Blot:** Use at 1-5 µg/ml  
**IF/IHC:** IF: Use at 2-10µg/ml

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**

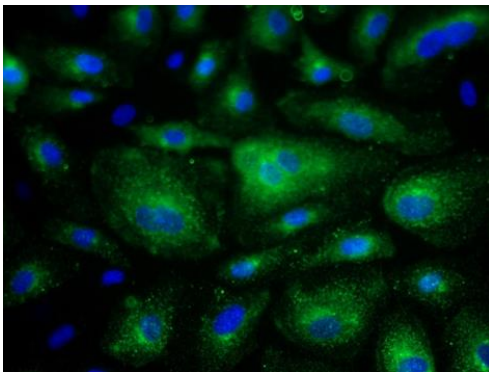


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### Handling/Applications



**Figure 1:** Western analysis of recombinant human sCD34 [Cat# S01-069] using an anti-human CD34 polyclonal antibody.



**Figure 2:** Immunofluorescence staining of human CD34 in HDMECs with a polyclonal rabbit anti-human CD34 antibody [Cat# 102-PA139]. Conjugated secondary antibody: goat anti-rabbit ALEXA Flour 488 (1:600) [Dianova].