

CD34 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1099a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P28906
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4H5E7; 9B10D4
Isotype	IgG2b
Calculated MW	40716
Description	CD34 is a transmembrane glycoprotein with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells, endothelial cells and some fibroblasts. It 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. CD34 is highly expressed on hematopoietic progenitors, as well as on endothelial cells. CD34 has been used to measure angiogenesis, which reportedly predicts tumor recurrence.
Immunogen	Purified recombinant fragment of CD34 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	947
Other Names	Hematopoietic progenitor cell antigen CD34, CD34, CD34
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 ICC~~1:200~~1000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CD34 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

1. Sho E., et al. Arterioscler Thromb Vasc Biol. 2004; 24: 1916-21. 2. Satterthwaite, A.B., et al. Genomics.1992;12:788-794.3. Krause, D.S., et al. 1994. Blood.84: 691-701.

Images

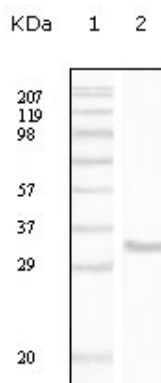


Figure 1: Western blot analysis using CD34 mouse mAb against truncated CD34 recombinant protein.

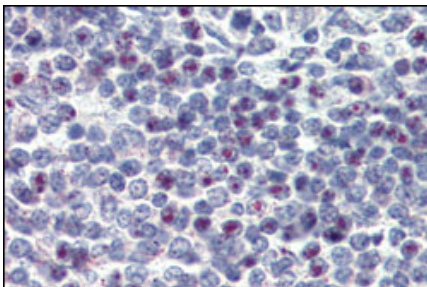


Figure 2: Immunohistochemical analysis of paraffin-embedded human spleen using CD34 mouse mAb with DAB staining.

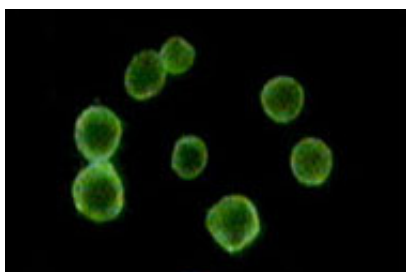
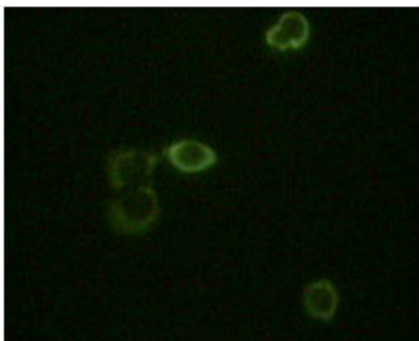


Figure 3: Immunofluorescence analysis of peripheral blood cells using CD34 mouse mAb.

Figure 2: Immunofluorescence staining of methanol-fixed Hela cells using ABL2 mouse mAb showing cytoplasm localization.



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