

Product datasheet for **AM26038AF-N**

CD34 Mouse Monoclonal Antibody [Clone ID: QBEnd-10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	QBEnd-10
Applications:	FC, FN, IHC, IP, WB
Recommended Dilution:	Flow cytometry: 5-10 µg/ml. Immunoprecipitation. Western blot. Immunohistochemistry on paraffin sections: 1-2 µg/ml. Immunohistochemistry on frozen sections. Functional application: The antibody QBEnd-10 induces homotypic adhesion of leukemic cell line.
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human endothelial vesicles
Specificity:	This antibody reacts with Class II epitope on CD34 (Mucosialin), a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotential stem cells; it is gradually lost on progenitor cells. This antibody has been also used as an endothelial marker.
Formulation:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Azide Free State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.



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Gene Name: CD34 molecule

Database Link: [Entrez Gene 947 Human P28906](#)

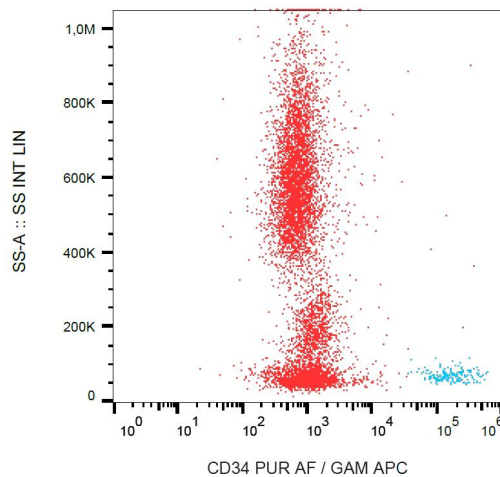
Background: CD34 is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on many stem cell populations. It is a well established stem cell marker, though its expression on human hematopoietic stem cells is reversible. CD34 probably serves as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions.

Synonyms: Hematopoietic progenitor cell marker

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Hematopoietic cell lineage

Product images:



Cell surface staining of CD34 in human peripheral blood with anti-CD34 azide free.