



10-566-C100

Monoclonal Antibody to CD34 Azide Free (0.1 mg)

Clone:	QBEnd-10
Isotype:	Mouse IgG1
Specificity:	<p>The antibody QBEnd-10 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.</p> <p>HLDA V.; WS Code BP BP275 HLDA V.; WS Code E E038 HLDA V.; WS Code M MA065 HLDA V.; WS Code M MR09</p>
Regulatory Status:	RUO
Immunogen:	Human endothelial vesicles
Species Reactivity:	Human, Non-Human Primates
Negative Species:	Rat, Bovine, Sheep, Canine (Dog)
Application:	<p>Flow Cytometry Recommended dilution: 5 µg/ml Immunoprecipitation Western Blotting Immunohistochemistry (paraffin sections) Recommended dilution: 1-2 µg/ml Immunohistochemistry (frozen sections) Functional Application The antibody QBEnd-10 induces homotypic adhesion of leukemic cell line.</p>
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized.
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	<p>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.</p>

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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 - *Traoré Y, Hirn J: Certain anti-CD34 monoclonal antibodies induce homotypic adhesion of leukemic cell lines in a CD18-dependent and a CD18-independent way. *Eur J Immunol.* 1994 Oct;24(10):2304-11.
- And many other publications.

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