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Azide Free Mouse anti-CD34 Monoclonal Antibody

CLX375NA

Clone: QBEnd-10

Isotype: Mouse IgG1

Specificity: The antibody QBEnd-10 reacts with Class II epitope on CD34 (Mucosialin), a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitor 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.

HLDA V.; WS Code BP BP275

HLDA V.; WS Code E E038

HLDA V.; WS Code M MA065

HLDA V.; WS Code M MR09

Immunogen: Human endothelial vesicles

Species Reactivity: Human, Non-Human Primates

Negative Species: Rat, Bovine, Sheep, Canine (Dog)

Purity: > 95% (by SDS-PAGE)

Concentration: 1.0 mg/ml

Preparation: Purified from hybridoma culture supernatant by protein-A affinity chromatography.

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.

Applications: 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.

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.

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