

DESCRIPTION

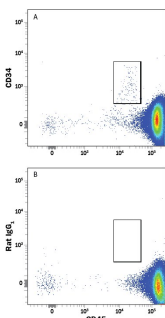
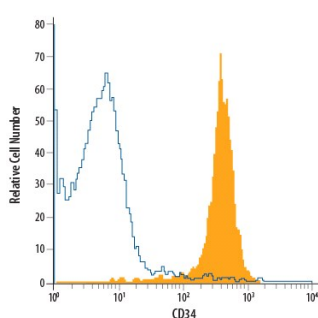
Species Reactivity	Human
Specificity	Detects human CD34 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # QBEnd10
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human endothelial vesicles
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA

Flow Cytometry	Flow Cytometry
<p>Detection of CD34 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were stained with Mouse Anti-Human CD34 APC-conjugated Monoclonal Antibody (Catalog # FAB7227A) and Mouse Anti-Human CD45 PE-conjugated Monoclonal Antibody (Catalog # FAB1430P). Quadrant markers were set based on control antibody staining (Catalog # IC002A). View our protocol for Staining Membrane-associated Proteins.</p> 	<p>Detection of CD34 in KG-1a Human Cell Line by Flow Cytometry. KG-1a human acute myelogenous leukemia cell line was stained with Mouse Anti-Human CD34 APC-conjugated Monoclonal Antibody (Catalog # FAB7227A, filled histogram) or isotype control antibody (Catalog # IC002A, open histogram). View our protocol for Staining Membrane-associated Proteins.</p> 

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The CD34 family of cell surface transmembrane proteins includes the hematopoietic progenitor cell antigen CD34, Podocalyxin, and Endoglycan. This single-pass sialomucin-like transmembrane protein is heavily glycosylated and phosphorylated by Protein kinase C (PKC). CD34 is a 115 kDa glycoprotein found on multipotent precursors, bone marrow stromal cells, embryonic fibroblasts, vascular endothelia, as well as some populations of mesenchymal stem cells, and tumor cell lines. CD34 is involved in the adhesion of stem cells to the bone marrow extracellular matrix or to stromal cells.