Datasheet for ABIN343702

anti-CD34 antibody

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Overview

Quantity:	0.1 mg
Target:	CD34
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD34 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func)

Product Details

Immunogen:	Human endothelial vesicles
Clone:	QBEnd-10
Isotype:	IgG1
Specificity:	The antibody QBEnd-10 reacts with an extracellular class II epitope on CD34, 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.
No Cross-Reactivity:	Cow, Dog, Rat, Sheep
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.

Product Details

Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD34
Alternative Name:	CD34 (CD34 Products)
Background:	CD34 Molecule,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.
Gene ID:	947
UniProt:	P28906

Application Details

Application Notes:	Functional application: The antibody QBEnd-10 induces homotypic adhesion of leukemic cell line. Flow cytometry: Recommended dilution: 5 µg/mL. Immunohistochemistry (paraffin sections): Recommended dilution: 2-8 µg/mL. Western blotting: Recommended dilution: 1-2 µg/mL, positive control: TF-1 cells.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Poblet, Jimenez-Acosta, Rocamora: "QBEND/10 (anti-CD34 antibody) in external root sheath cells and follicular tumors." in: **Journal of cutaneous pathology**, Vol. 21, Issue 3, pp. 224-8, (1994) (PubMed).

Traoré, Hirn: "Certain anti-CD34 monoclonal antibodies induce homotypic adhesion of leukemic cell lines in a CD18-dependent and a CD18-independent way." in: **European journal of immunology**, Vol. 24, Issue 10, pp. 2304-11, (1994) (PubMed).

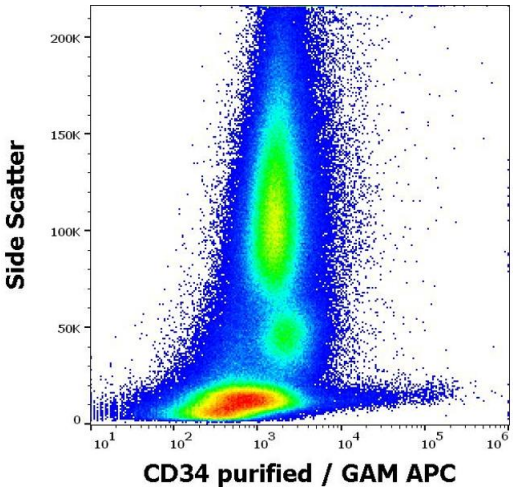
Kuzu, Bicknell, Harris, Jones, Gatter, Mason: "Heterogeneity of vascular endothelial cells with relevance to diagnosis of vascular tumours." in: **Journal of clinical pathology**, Vol. 45, Issue 2, pp. 143-8, (1992) (PubMed).

Sutherland, Marsh, Davidson, Baker, Keating, Mellors: "Differential sensitivity of CD34 epitopes to cleavage by Pasteurella haemolytica glycoprotease: implications for purification of CD34-positive progenitor cells." in: **Experimental hematology**, Vol. 20, Issue 5, pp. 590-9, (1992) (PubMed).

Ramani, Bradley, Fletcher: "QBEND/10, a new monoclonal antibody to endothelium: assessment of its diagnostic utility in paraffin sections." in: **Histopathology**, Vol. 17, Issue 3, pp. 237-42, (1991) (PubMed).

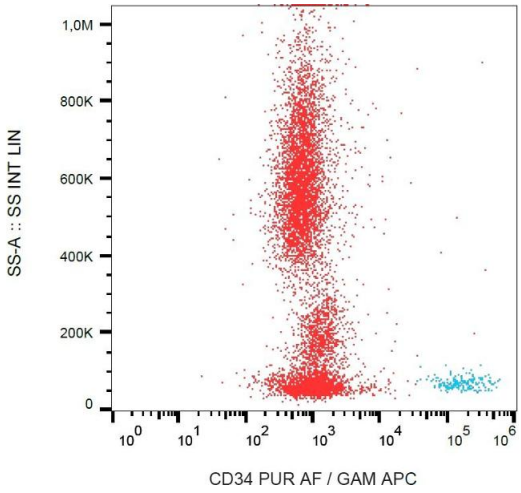
There are more publications referencing this product on: Product page

Images



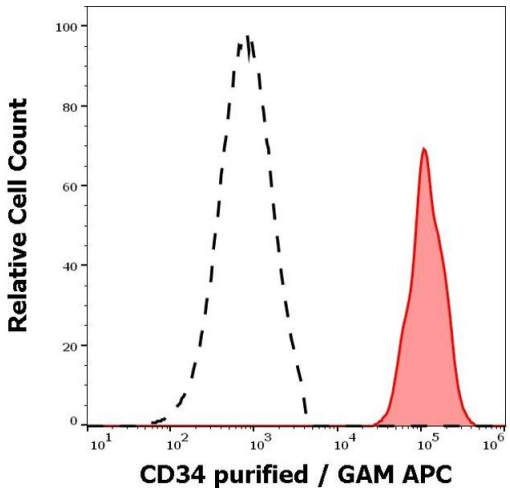
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (QBEnd-10) purified antibody (concentration in sample 0,6 µg/mL, GAM APC).



Flow Cytometry

Image 2. Flow cytometry analysis (surface staining) of CD34 in human peripheral blood with anti-CD34 (QBEnd-10) azide free.



Flow Cytometry

Image 3. Separation of human CD45dim CD34 positive stem cells (red-filled) from human lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD34 (QBEnd-10) purified antibody (concentration in sample 0,6 µg/mL, GAM APC).

Please check the product details page for more images. Overall 5 images are available for ABIN343702.