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CD34 Monoclonal Antibody (QBEND/10), FITC

Catalog Number MA1-10204

Product data sheet

Details	
Size	100 Tests
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	QBEND/10
Immunogen	Human endothelial vesicles
Conjugate	FITC
Form	Liquid
Purification	Size-exclusion chromatography
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	15mM sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Human, Non-human primate
Published species	Rabbit, Rat, Human

Tested Applications	Dilution *
Flow Cytometry (Flow)	20 µL/1x10^6 cells

Published Applications	
Flow Cytometry (Flow)	See 2 publications below
Immunohistochemistry (IHC)	See 92 publications below
Immunocytochemistry (ICC/IF)	See 3 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody will not cross-react with bovine, canine or sheep.

Background/Target Information

CD34 is a highly glycosylated monomeric with a molecular weight range of 111-115 kDa surface protein that is present on many stem cell populations. CD34 is a stem cell marker although its expression on human hematopoietic stem cells is reversible. CD34 may serve 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. CD34 is possibly an adhesion molecule with a putative role for mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Further, CD34 could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C suggesting a putative role in signal transduction. Diseases associated with CD34 dysfunction include dermatofibrosarcoma and neurofibroma.

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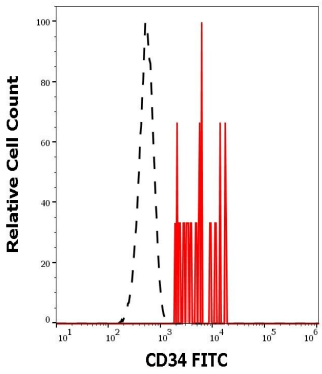
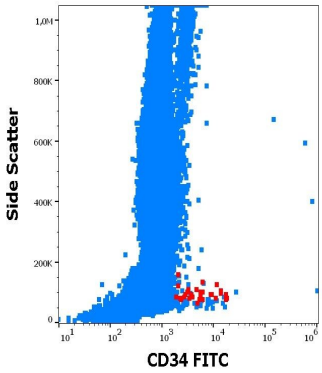
Product Images For CD34 Monoclonal Antibody (QBEND/10), FITC



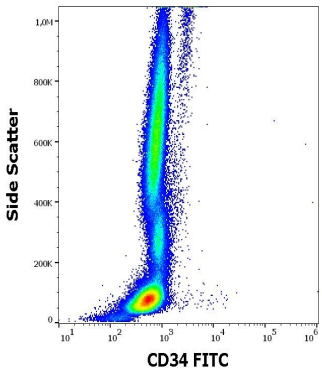
CD34 Antibody (MA1-10204) in Flow

Separation of human CD34 positive stem cells (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD34 (QBEnd-10) FITC Monoclonal antibody (Product # MA1-10204) using a dilution of 20 µL reagent/100 µL of peripheral whole blood.



CD34 Antibody (MA1-10204) in Flow

Flow cytometry surface staining pattern of human peripheral whole blood showing CD34 positive stem cells (red) stained using anti-human CD34 (QBEnd-10) FITC Monoclonal antibody (Product # MA1-10204) using a dilution of 20 µL reagent/100 µL of peripheral whole blood.



CD34 Antibody (MA1-10204) in Flow

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD34 (QBEnd-10) FITC Monoclonal antibody (Product # MA1-10204) using a dilution of 20 µL reagent/100 µL of peripheral whole blood.

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PubMed References For CD34 Monoclonal Antibody (QBEND/10), FITC

2 Flow Cytometry References

Species / Dilution	Summary
Rat / Not Cited	MA1-10204 was used in Flow cytometry/Cell sorting to evaluate the therapeutic effects of stem cells at histological, molecular, biochemical, and functional levels in a methotrexate-induced testicular damage model. Stem cells international (2021; 2021:) **"Therapeutic Effect of Stem Cells on Male Infertility in a Rat Model: Histological, Molecular, Biochemical, and Functional Study."** Author(s):Mohammed SS,Mansour MF,Salem NA PubMed Article URL:http://dx.doi.org/10.1155/2021/8450721
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92 Immunohistochemistry References

Species / Dilution	Summary
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Human / 1:800	MA1-10204 was used in immunohistochemistry to report on three cases of angiomatous spindle cell lipoma Pathology international (2007; 57: 26) **"Angiomatous spindle cell lipoma: Report of three cases with immunohistochemical and ultrastructural study and reappraisal of former 'pseudoangiomatous' variant."** Author(s):Zamecnik M,Michal M PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2007.02052.x
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Human / 1:50	MA1-10204 was used in immunohistochemistry to examine the clinicopathologic features of lipoleiomyoma of the uterine corpus Archives of gynecology and obstetrics (2008; 278: 291) **"Giant lipoleiomyoma of the uterine corpus."** Author(s):Akbulut M,Soysal ME,Duzcan SE PubMed Article URL:http://dx.doi.org/10.1007/s00404-008-0580-0
Human / 1:30	MA1-10204 was used in immunohistochemistry to study the regulation of angiogenesis in colorectal cancer by the mineralocorticoid receptor PloS one (2013; 8:) **"The decrease of mineralcorticoid receptor drives angiogenic pathways in colorectal cancer."** Author(s):Tiberio L,Nascimbeni R,Villanacci V,Casella C,Fra A,Vezzoli V,Furlan L,Meyer G,Parrinello G,Baroni MD,Salerni B,Schiaffonati L PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0059410

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