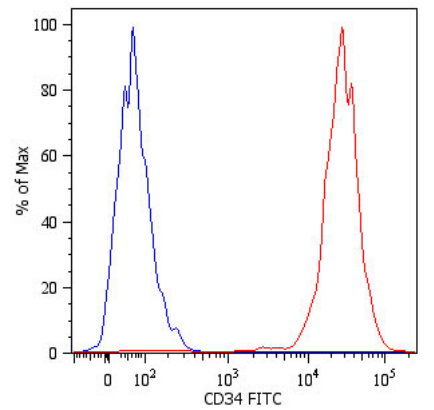
CD34 monoclonal antibody, clone 4H11[APG] (FITC)

Catalog # MAB4412 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of KG-1a (human acute myelogenous leukemia cell line) with CD34 monoclonal antibody, clone 4H11[APG] (FITC) (Cat # MAB4412). Total viable cells were used for analysis.

Specification

Product Description	Mouse monoclonal antibody raised against native CD34.
Immunogen	Native purified CD34 from permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia.
Host	Mouse
Theoretical MW (kDa)	110-115
Reactivity	Human
Specificity	This antibody reacts with Class III epitope on CD34 (Mucosialin), a 110-115 KDa monomeric transm embrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most plurip otential stem cells; it is gradually lost on progenitor cells.
Form	Liquid
Conjugation	FITC
Isotype	IgG1

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Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Surface staining of KG-1a (human acute myelogenous leukemia cell line) with CD34 monoclonal antibody, clone 4H11[APG] (FITC) (Cat # MAB4412). Total viable cells were used for analysis.

- Western Blot

Gene Info — CD34

Entrez GeneID	947
Gene Name	CD34
Gene Alias	-
Gene Description	CD34 molecule
Omim ID	142230
Gene Ontology	Hyperlink
Gene Summary	CD34 is a monomeric cell surface antigen with a molecular mass of approximately 110 kD that is selectively expressed on human hematopoietic progenitor cells.[supplied by OMIM
Other Designations	CD34 antigen|OTTHUMP00000034733|OTTHUMP00000034734|hematopoietic progenitor cell a ntigen CD34

Publication Reference

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- Hematopoietic stem cell antigen CD34: role in adhesion or homing.

  Gangenahalli GU, Singh VK, Verma YK, Gupta P, Sharma RK, Chandra R, Luthra PM.

  Stem Cells and Development 2006 Jun; 15(3):305.

- Three-dimensional structure prediction of the interaction of CD34 with the SH3 domain of Crk-L.

  Gangenahalli GU, Singh VK, Verma YK, Gupta P, Sharma RK, Chandra R, Gulati S, Luthra PM.

  Stem Cells and Development 2005 Oct; 14(5):470.

- Reversibility of CD34 expression on human hematopoietic stem cells that retain the capacity for secondary reconstitution.

  Dao MA, Arevalo J, Nolta JA.

  Blood 2002 Jul; 101(1):112.

Pathway

- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage

Disease

- Carcinoma
- Disease Progression
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hepatitis C
- Liver Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Tobacco Use Disorder
- Viremia

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