9F, No. 108, Jhouzih St., Taipei, Taiwan
Tel: + 886-2-8751-1888 Fax: + 886-2-6602-1218
E-mail: sales@abnova.com

Datasheet

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

Catalog Number: MAB4412

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD34.

Clone Name: 4H11[APG]

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

Applications: Flow Cyt, WB
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody reacts with Class III epitope on CD34 (Mucosialin), 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.

Form: Liquid

Conjugation: FITC

Isotype: IgG1

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.

Entrez GeneID: 947

Gene Symbol: CD34

Gene Alias: -

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]

References:

1. 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 Dev. 2006 Jun;15(3):305-13.
2. 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 Dev. 2005 Oct;14(5):470-7.
3. Reversibility of CD34 expression on human hematopoietic stem cells that retain the capacity for secondary reconstitution. Dao MA, Arevalo J, Nolta JA. Blood. 2003 Jan 1;101(1):112-8. Epub 2002 Jul 25.