

Datasheet

CD34 monoclonal antibody, clone 4H11[APG]

Catalog Number: MAB3835

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, IHC-P, 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. This antibody completely blocks binding of Class II antibody QBEnd10 and Class III antibodies BIRMA K3 and 8G12 on KG1a cell line.

Form: Liquid

Concentration: 1 mg/mL

Isotype: IgG1

Recommend Usage: Flow Cytometry (2 ug/mL)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (10 ug/mL)
Western Blot (2 ug/mL)
The optimal working dilution should be determined by

the end user.

Storage Buffer: In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction: Store at 4°C. Do not freeze. 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, Nolte JA. Blood. 2003 Jan 1;101(1):112-8. Epub 2002 Jul 25.