

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

Catalog # MAB4413

Size 100 Reactions

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 transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotent stem cells; it is gradually lost on progenitor cells.
Form	Liquid
Conjugation	PE
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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

- Flow Cytometry

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 antigen CD34

Publication Reference

- [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](#)