ARG53830
anti-CD34 antibody [4H11(APG)] (APC)

Package: 100 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [4H11(APG)] recognizes CD34
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone 4H11(APG) 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. 4H11(APG) completely blocks binding of Class II antibody QBEnd10 and Class III antibodies BIRMA K3 and 8G12 on KG1a cell line. HLDA VI; WS Code M MA58
Host	Mouse
Clonality	Monoclonal
Clone	4H11(APG)
Isotype	IgG1
Target Name	CD34
Species	Human
Immunogen	Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia.
Conjugation	APC
Alternate Names	Hematopoietic progenitor cell antigen CD34; CD antigen CD34

Application Instructions

Application table

Application	Dilution
FACS	10 µl / 10^6 cells

Application Note

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

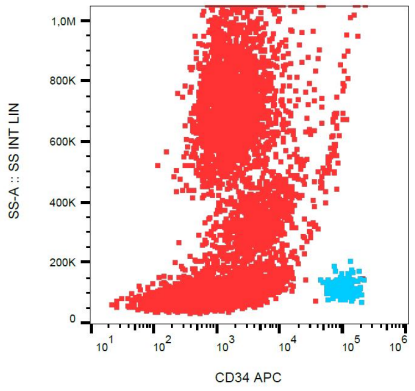
Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

	repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 947 Human Swiss-port # P28906 Human
Gene Symbol	CD34
Gene Full Name	CD34 molecule
Background	CD34 protein may play a role in the attachment of stem cells to the bone marrow extracellular matrix or to stromal cells. This single-pass membrane protein is highly glycosylated and phosphorylated by protein kinase C. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
Function	CD34 is a possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. 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. Presents carbohydrate ligands to selectins. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Immune System antibody; Neuroscience antibody; Pro-B Cell Marker antibody; Endothelial Cell Marker antibody; Angiogenesis Study antibody
Calculated Mw	41 kDa
PTM	Highly glycosylated. Phosphorylated on serine residues by PKC.

Images



ARG53830 anti-CD34 antibody [4H11(APG)] (APC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG53830 anti-CD34 antibody [4H11(APG)] (APC). CD34+ cells (blue); CD34- cells (red).