

## ARG53831 anti-CD34 antibody [4H11 (APG)] (PE)

Package: 100 tests  
Store at: 4°C

### Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [4H11 (APG)] recognizes CD34
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF
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	PE
Alternate Names	Hematopoietic progenitor cell antigen CD34; CD antigen CD34

### Application Instructions

Application table	Application	Dilution
	FACS	20 µl / 10 <sup>6</sup> cells
	ICC/IF	1:15 - 30
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 R-Phycoerythrin (PE) 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	<a href="#">GeneID: 947 Human</a> <a href="#">Swiss-port # P28906 Human</a>
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



ARG53831 anti-CD34 antibody [4H11 (APG)] (PE) ICC/IF image

Immunocytochemistry: Human chronic myeloid leukemia cell (MOLM-7) stained with ARG53831 anti-CD34 antibody [4H11 (APG)] (PE) at 1:15 dilution.