

## ARG62820 anti-CD34 antibody [4H11(APG)]

Package: 100 µg, 50 µg  
Store at: -20°C

### Summary

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

### Application Instructions

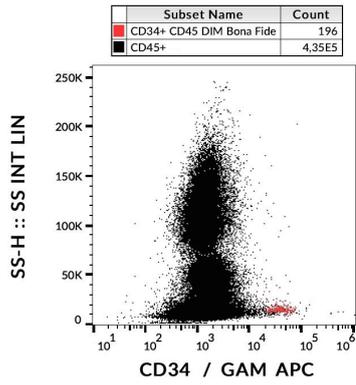
Application table	Application	Dilution
	FACS	2 µg/ml
	ICC/IF	Assay-dependent
	IHC-P	10 µg/ml
	WB	1 - 2 µg/ml
Application Note	WB: Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Application note: Non-reducing condition. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	WB: Positive control: Kg-1a human leukemia cells. Negative control: Jurkat. IHC-P: Positive control: Placenta endothelium.	

### Properties

Form	Liquid
Purification	Purified from ascites by precipitation methods.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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]
Highlight	Related Antibody Duos and Panels: <a href="#">ARG30306 Pro-B Cell Marker Antibody panel (CD19, CD34, CD38, CD40, CD45) (FACS)</a> Related products: <a href="#">CD34 antibodies;</a> <a href="#">CD34 ELISA Kits;</a> <a href="#">CD34 Duos / Panels;</a> <a href="#">Anti-Mouse IgG secondary antibodies;</a>
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.



ARG62820 anti-CD34 antibody [4H11(APG)] FACS image

Flow Cytometry: Human peripheral blood stained with ARG62820 anti-CD34 antibody [4H11(APG)], followed by incubation with APC labelled Goat anti-Mouse secondary antibody. CD34+ cells (red); CD45+ cells (black).