

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

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

Summary

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| 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

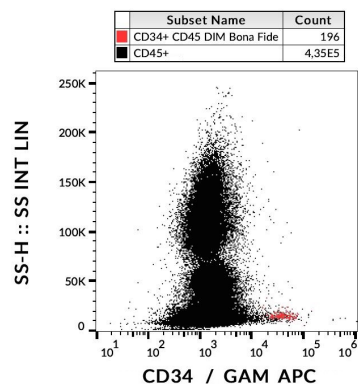
| Application table | Application | Dilution |
|-------------------|---|-----------------|
| | FACS | 2 µg/ml |
| | ICC/IF | Assay-dependent |
| | IHC-P | 10 µg/ml |
| | WB | 1 - 2 µg/ml |
| Application Note | WB: Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside 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

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| 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

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| 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] |
| Highlight | Related Antibody Duos and Panels: ARG30306 Pro-B Cell Marker Antibody panel (CD19, CD34, CD38, CD40, CD45) (FACS) Related products: CD34 antibodies: CD34 ELISA Kits: CD34 Duos / Panels: Anti-Mouse IgG secondary antibodies: |
| 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).