

ARG44058
anti-CD34 antibody [QBEND/10] (PerCP-Cyanine 5.5)

Package: 50 tests

Store at: 4°C

Summary

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|---------------------|--|
| Product Description | PerCP-Cyanine 5.5-conjugated Mouse Monoclonal antibody [QBEND/10] recognizes CD34 (Endothelial Cell Marker) |
| Tested Reactivity | Hu |
| Tested Application | FACS |
| Specificity | The antibody recognizes the CD34 antigen, some cross reactions with vascular associated adventitia and some basement membranes. Clone QBEND/10 immunoprecipitates a glycoprotein with a relative MW 110kD expressed on haematopoietic cells and on the established myeloid leukaemic cell line KG1A. The clone QBEND/10 recognises the Class II epitope on CD34. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | QBEND/10 |
| Isotype | IgG1 |
| Target Name | CD34 |
| Species | Human |
| Immunogen | Human endothelial vesicles |
| Conjugation | PerCP-Cyanine 5.5 |
| 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

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| Form | Liquid |
| Purification | The purified antibody is conjugated with PerCP-Cyanine 5.5 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Purification Note | 0.2 µm filter sterilized. |
| Purity | > 95% (by SDS-PAGE) |
| Buffer | PBS (pH 7.4) |
| Preservative | 15 mM Sodium azide |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid |

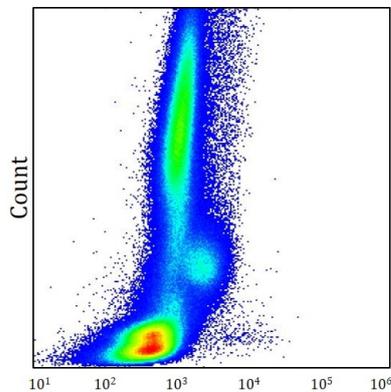
repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

| | |
|----------------|---|
| 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



ARG44058 anti-CD34 antibody [QBEND/10] (PerCP-Cyanine 5.5)
FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG44058 anti-CD34 antibody [QBEND/10] (PerCP-Cyanine 5.5) at 10 μ l / 10⁶ cells dilution.