

CD34 Monoclonal Antibody (581), PerCP-Cyanine5.5

Catalog NumberA14949

Product data sheet

| Details | | Species Reactivity | |
|--------------------|------------------|---|-------|
| Size | 25 µg | Species reactivity | Human |
| Host/Isotope | Mouse / IgG1 | <div>Tested ApplicationsDilution * Flow Cytometry (Flow)Assay-dependent</div> | |
| Class | Monoclonal | | |
| Type | Antibody | <div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div> | |
| Clone | 581 | | |
| Immunogen | Human CD34. | | |
| Conjugate | PerCP-Cyanine5.5 | | |
| Form | Liquid | | |
| Concentration | 0.5 mg/mL | | |
| Storage Conditions | 4° C | | |

Background/Target Information

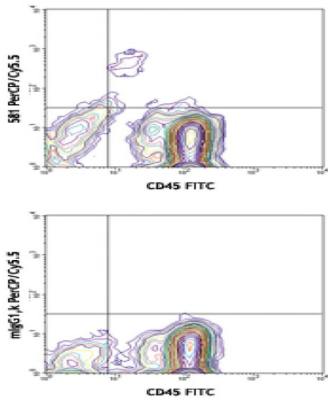
CD34 is a highly glycosylated monomeric with a molecular weight range of 111-115 kDa surface protein that is present on many stem cell populations. CD34 is a stem cell marker although its expression on human hematopoietic stem cells is reversible. CD34 may serve as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions. CD34 is possibly an adhesion molecule with a putative role for mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Further, CD34 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. CD34 is thought to have a role in presenting carbohydrate ligands to selectins. The intracellular chain of the CD34 antigen is a site of phosphorylation by activated protein kinase C suggesting a putative role in signal transduction. Diseases associated with CD34 dysfunction include dermatofibrosarcoma and neurofibroma.

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CD34 Antibody (A14949) in Flow

Human peripheral blood leukocytes stained with CD45 FITC and antibody clone 581 PerCP-Cy^{5.5} conjugate (top, Cat. No. A14949) or mouse IgG1,kappa PerCP-Cy^{5.5} isotype control (bottom). Cy^{5.5} togram gated for total live CD14 negative lymphocyte population.

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