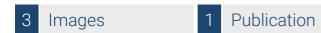


Datasheet for ABIN94078

anti-CD34 antibody (Biotin)





Go to Product page

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| Quantity: | 100 μg | |
|--------------|--|--|
| Target: | CD34 | |
| Reactivity: | Human | |
| Host: | Mouse | |
| Clonality: | Monoclonal | |
| Conjugate: | This CD34 antibody is conjugated to Biotin | |
| Application: | Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC) | |

Product Details

| Purpose: | Anti-Hu CD34 Biotin | |
|-----------------------------|--|--|
| Immunogen: | Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia. | |
| Clone: | 4H11[APG] | |
| Isotype: | IgG1 | |
| Specificity: | The mouse monoclonal antibody 4H11[APG] reacts with extracellular class III epitope on CD34, 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. The antibody 4H11[APG] completely blocks binding of class III antibodies BIRMA K3 and 8G12 on KG1a cell line. | |
| Cross-Reactivity (Details): | Human | |

Product Details

Purification:

Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

| Target: | CD34 | |
|-------------------|---|--|
| Alternative Name: | CD34 (CD34 Products) | |
| Background: | CD34 Molecule,CD34 is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on many stem cell populations. It is a well established stem cell marker, though its expression on human hematopoietic stem cells is reversible. CD34 probably serves 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. | |
| Gene ID: | 947 | |
| UniProt: | P28906 | |

Application Details

| Application Notes: | Flow cytometry: Recommended dilution: 1-2 μg/mL. |
|--------------------|--|
| | |

Restrictions: For Research Use only

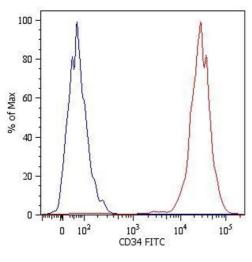
Handling

| Concentration: | 1 mg/mL | |
|--------------------|--|--|
| Buffer: | Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide | |
| Preservative: | Sodium azide | |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. | |
| Handling Advice: | Do not freeze. Avoid prolonged exposure to light. | |
| Storage: | 4 °C | |
| Storage Comment: | Store at 2-8°C. Do not freeze. | |

Product cited in:

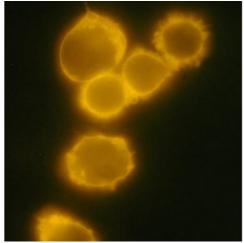
Elknerová, Lacinová, Soucek, Marinov, Stöckbauer: "Growth inhibitory effect of the antibody to hematopoietic stem cell antigen CD34 in leukemic cell lines." in: **Neoplasma**, Vol. 54, Issue 4, pp. 311-20, (2007) (PubMed).

Images



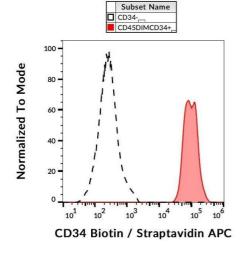
Flow Cytometry

Image 1. Flow Cytometry analysis Surface staining of Kg-1a human acute myelogenous leukemia cell line with antihuman CD34 (4H11[APG]) FITC. Total viable cells were used for analysis.



Immunofluorescence

Image 2. Detection of CD34 in human chronic myeloid leukemia cell line MOLM-7 with anti-human CD34 PE.



Flow Cytometry

Image 3. Surface staining of CD34+ cells in human peripheral blood with anti-CD34 (4H11[APG]) biotin / streptavidin-APC.