

PE-Labeled Monoclonal Anti-Human CD34 Antibody, Mouse IgG1 (AS579) (0.03% Proclin)

Catalog # FABm034-01



Clone

AS579

Isotype

Mouse IgG1, Kappa

Host Species

Mouse

Reactivity

Human

Immunogen

Purified Human CD34 Protein

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Specificity

This product is a specific antibody specifically reacts with CD34 protein.

Application

Flow Cytometry (Evaluation of the expression of CD34 on Human cells).

Recommended Dilution

1:20

Isotype Control

The isotype control is sold separately; please refer to Cat. No. [DNP-PM1](#) for product information.

Form

Liquid

Formulation

Supplied as 0.2 µm-filtered solution in PBS (pH 7.4) containing 0.03% ProClin 300 and 0.2% BSA, with trehalose as protectant.

Please contact us for customized product forms or formulations.

Shipping

Liquid product is shipped at blue ice.

Storage

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- Store at 2-8 °C for 12 months.

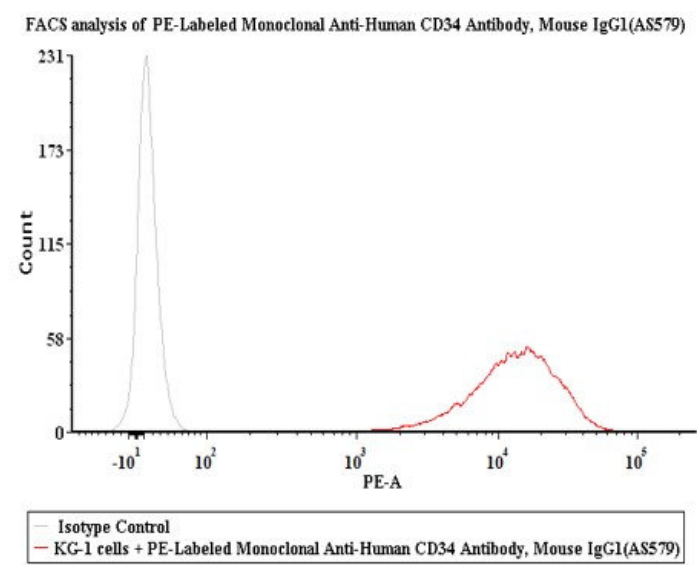
Notices

Product Specific Notices: For research use only.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

Bioactivity-FACS



Flow cytometric analysis of KG-1 staining with PE-Labeled Monoclonal Anti-Human CD34 Antibody , Mouse IgG1 (AS579) (Cat. No. FABm034-01) at 1:20 dilution (5 μ L of the antibody stock solution corresponds to labeling of 1e6 cells in a final volume of 100 μ L), compared with isotype control antibody. PE signal was used to evaluate the binding activity (QC tested).

Background

CD34 molecule is a cluster of differentiation molecule present on certain cells within the human body. It is a cell surface glycoprotein and functions as a cell-cell adhesion factor. It may also mediate the attachment of stem cells to bone marrow extracellular matrix or directly to stromal cells. As a ~ 110 kDa monomeric cell surface antigen, CD34 is highly glycosylated with nine potential N-linked and numerous potential O-linked glycosylation sites in its extracellular domain. The CD34 protein is a member of a family of single-pass transmembrane sialomucin proteins that show expression on early hematopoietic and vascular-associated tissue. CD34 is also an important adhesion molecule and is required for T cells to enter lymph nodes. It is expressed on lymph node endothelia whereas the L-selectin to which it binds is on the T cell. It was indicated that CD34 is a phosphorylation target for activated PKC, and couples to the hematopoietic adapter protein CrkL, which were involved in CD34 signaling pathways. CD34 is abberantly expressed in many kinds of tumors and is implicated in leukemogenesis.



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