

Technical Data Sheet

Anti-Human CD34

Catalog Number: 107401
Size: 100 ug
Target Name: CD34, Gp105-120, My10
Regulatory Status: RUO

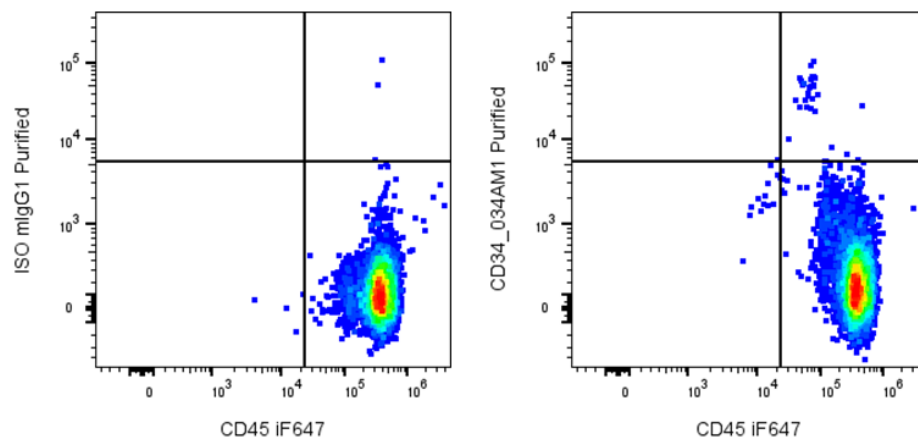
Product Details

Clone: 581
Application: FC
Reactivity: Human
Format: Purified
Isotype: Mouse IgG1
Antibody Type: Monoclonal
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration: 0.2 mg/mL
Storage&Handling: The antibody solution should be stored between 2°C and 8°C
Recommended Usage: For flow cytometric staining, it is recommended to use less than 0.2 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application
Release Date: Dec-25

Background Information

CD34 (gp105–120) is a type I monomeric sialomucin-like glycoposphoprotein with a molecular weight of 105–120 kDa, expressed on hematopoietic stem and progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some neural tissues. CD34 serves as a widely used stem cell marker and mediates cell adhesion and lymphocyte homing through interactions with L-selectin and E-selectin ligands. CD34 expression is dynamic and reversible, reflecting specific states of hematopoietic development, including proliferation, differentiation, and altered adhesion properties. Multiple epitopes have been identified based on differential enzymatic sensitivity. Clinically, CD34 is expressed in ~40% of acute myeloid leukemias and 65% of pre-B acute lymphoblastic leukemias, but only 1–5% of acute T-lymphoid leukemias. It is also used to assess stem cell counts for transplantation and can provide prognostic information in certain cancers.

Product Data



Human peripheral blood leukocytes stained with iF647 Anti-human CD45 and either Anti-Human CD34 clone 581 (right panel) or an isotype control (left panel), followed by PE anti-mouse IgG 2nd antibody