

Product Data Sheet

Purified anti-human CD34

Catalog # / Size: 343602 / 100 µg

Clone: 561

Isotype: Mouse IgG2a, κ

Reactivity: Human, **Cross-Reactivity:** Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The 561 antibody recognizes a class III group epitope, which is resistant to sialidase/glycolipase and chymopapain treatment.

Application References: 1. Croockewit AJ, *et al.* 1998. *Scand. J. Immunol.* 47:82.
2. Rosenzweig M, *et al.* 2001. *J. Med. Primatol.* 30:36.

Description: CD34, also known as gp105-120, is a type I monomeric sialomucin-like glycoprophoprotein with an approximate molecular weight of 105-120 kD. It is selectively expressed on the majority of hematopoietic stem/progenitor cells, bone marrow stromal cells, capillary endothelial cells, embryonic fibroblasts, and some nervous tissue. CD34 is a commonly used marker for identifying human hematopoietic stem/progenitor cells. Based on different sensitivities, four groups of epitopes of CD34 have been described. CD34 mediates cell adhesion and lymphocytes homing through binding to L-selectin and E-selectin ligands.

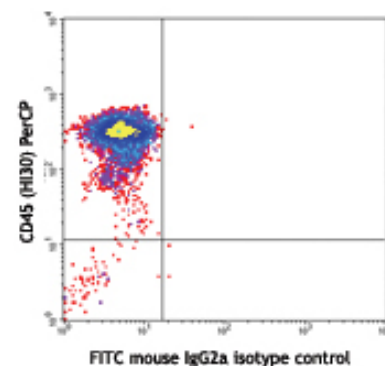
Related Products:

Product
Purified Mouse IgG2a, κ Isotype Ctrl

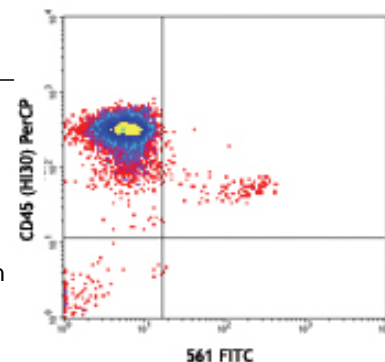
Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
MG2a-53

Application
FC, ICC, IF,
IHC, IP, WB
FC, ICC, ICFC
FC, ICFC



Human peripheral blood mononuclear cells stained with 561 FITC (lower panel) or FITC mouse IgG2a isotype control (upper panel) and CD45 (H130) PerCP (gated on CD14- cell population)



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