

Product Data Sheet

FITC anti-human CD34

Catalog # / Size: 343503 / 25 tests

343504 / 100 tests

Clone: 581

Isotype: Mouse IgG1, κ

Workshop Number: V MA27

Reactivity: Human, Cross-Reactivity: Cynomolgus

Preparation: The antibody was purified by affinity chromatography, and conjugated with

FITC under optimal conditions. The solution is free of unconjugated FITC.

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

0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Applications: FC - Quality tested

IF - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. Test size products are transitioning from 20 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: The 581 antibody recognizes the class III group epitope which is resistant to

sialidase/glycolyprotease and chymopapain treatment. Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraffin-embedded tissue sections⁵ and immunofluorescence⁶.

Application References: 1. Schlossman SF, et al. 1995. Leukocyte Typing V:White Cell Differentiation Antigen. New York:Oxford University Press.

Felschow DM, et al. 2001. Blood 97:3768.
Rudin CE, et al. 1997. Br. J. Haematol. 97:488.

4. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

5. Skowasch D, et al. 2003. Cardiovasc Res. 60:684. (IHC) 6. Umland O, et al. 2003. J. Histochem. Cytochem. 51:977. (IF)

Description: CD34, also known as gp105-120, is a type I monomeric sialomucin-like glycophosphoprotein with an approximate

molecular weight of 105-120 kD. 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 to identify human hematopoietic stem/progenitor cells. According to the differential sensitivity to enzymatic cleavage, 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.

Antigen References: 1. Krause DS, et al. 1996. Blood 87:1.

2. Puri KD, et al. 1995. J. Cell Biol. 131:261.

3. Zola H, et al. 2007. Leukocyte and Stromal Cell Molecules: The CD Markers. John Wiley & Sons Inc, Hoboken New

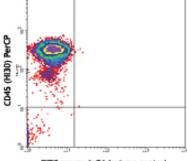
Jersey.

Related Products: Product Clone Application MOPC-21 FITC Mouse IgG1, κ Isotype Ctrl

Cell Staining Buffer RBC Lysis Buffer (10X)

Human TruStain FcX™ (Fc Receptor Blocking Solution)

FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC



FITC mouse IgG1 isotype control

Human peripheral blood mononuclear cells stained with 581 FITC (lower panel) or FITC mouse IgG1 isotype control (upper panel) and CD45 (HI30) PerCP (gated on CD14- cell population)

