

Product Data Sheet

CD45 FITC Human peripheral blood stained with

581 PE/Cy7 or mouse IgG1,k isotype control PE/Cy7. Cytograms were gated to display total live CD14

migG1,k PE/Cy7

PE/Cy7 anti-human CD34

Catalog # / Size:	343515 / 25 tests 343516 / 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 PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
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:

Applications: FC - Quality tested negative mononuclear cells. 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. PE/Cy7 Application Notes: The 581 antibody recognizes the class III group epitope which is resistant to sialidase/glycolyprotease and chymopapain treatment. Additional reported 581 applications (for the relevant formats) include: immunohistochemical staining of paraffin-embedded tissue sections⁵ and immunofluorescence⁶. Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only. CD45 FITC 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. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
Skowasch D, et al. 2003. Cardiovasc Res. 60:684. (IHC)
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 PE/Cy7 Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer MOPC-21 FC, ICFC FC, ICC, ICFC RBC Lysis Buffer (10X) FC, ICFC Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC

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