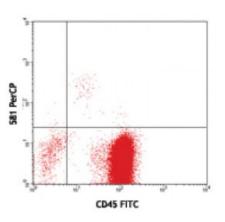
Product Data Sheet

PerCP anti-human CD34

Catalog # / Size:	2317595 / 25 tests 2317600 / 100 tests
Clone:	581
Isotype:	Mouse IgG1, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	V MA27
Concentration:	Lot-specific

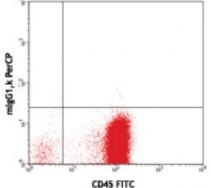


Human peripheral blood leukocytes stained with CD45 FITC and 581 PerCP (top) or mouse IgG1, κ PerCP isotype control (bottom). Cytogram gated for total live CD14 negative lymphocyte population

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.
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 immunofluorescence ⁶ .
Application References:	 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)

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