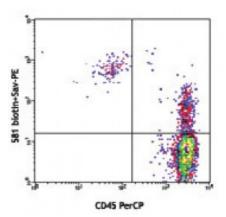
Product Data Sheet

Biotin anti-human CD34

Catalog # / Size:	2317620 / 100 μg 2317615 / 25 μg
Clone:	581
Isotype:	Mouse IgG1, к
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	V MA27
Concentration:	0.5



Human peripheral blood lymphocytes stained with biotinylated CD34 (clone 581) (top), or mouse IgG1 isotype control (bottom), followed by Sav-PE and co-stained with CD14 APC and CD45 PerCP. Gated on CD14 dim population.

Applications:

	1 1
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 ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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)

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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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