Product Data Sheet

Purified anti-human CD34

Catalog # / Size: 2317505 / 25 μg

 $2317510 / 100 \, \mu g$

Clone: 581

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography.

Formulation: Phosphate-buffered solution, pH 7.2,

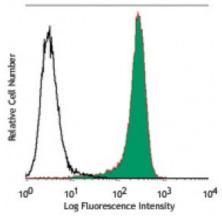
containing 0.09% sodium azide.

Workshop

Number:

V MA27

Concentration: 0.5



Human myeloid cell line KG1a stained with purified 581, followed by anti-mouse IgG FITC

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 \leq 2.0 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 sections 5 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.

ces: 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

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