

Product Data Sheet

Purified anti-human CD33

Catalog # / Size: 303402 / 100 µg

Clone: WM53

Isotype: Mouse IgG1, κ

Workshop Number: IV M-505

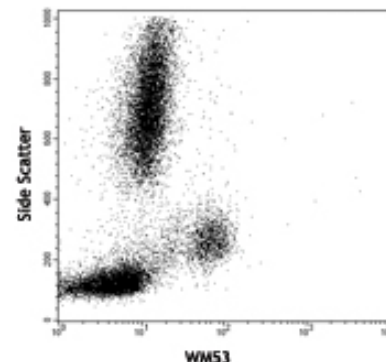
Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes, monocytes, and granulocytes were stained with purified CD33 (clone WM53), followed by anti-mouse IgGs FITC.

Applications:

Applications: FC - *Quality tested*
 IP, WB - *Reported in the literature*
 CyTOF® - *Validated*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting³, and induction of cytokine production³. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303410).

Application References: 1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
 2. Favaloro E, *et al.* 1988. *Br. J. Haematol.* 69:163.
 3. Garnache-Ottou F, *et al.* 2005. *Blood* 105:1256. (WB)

Description: CD33 is a 67 kD type I transmembrane glycoprotein also known as Siglec-3, gp67, and p67. It is a sialoadhesion immunoglobulin superfamily member expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. CD33 is absent on normal platelets, lymphocytes, erythrocytes and hematopoietic stem cells. CD33 functions as a sialic acid-dependent cell adhesion molecule with carbohydrate/lectin binding activity.

Antigen References: 1. Favaloro E, *et al.* 1988. *Br. J. Haematol.* 69:163.
 2. Freeman S, *et al.* 1995. *Blood* 85:2005.

Related Products:

Product Purified anti-human CD15 (SSEA-1)

Purified anti-human CD33

Purified anti-human CD14

Purified anti-human CD13

Purified Mouse IgG1, κ Isotype Ctrl

APC Goat anti-mouse IgG (minimal x-reactivity)

Biotin Goat anti-mouse IgG (minimal x-reactivity)

FITC Goat anti-mouse IgG (minimal x-reactivity)

PE Goat anti-mouse IgG (minimal x-reactivity)

Cell Staining Buffer

RBC Lysis Buffer (10X)

Clone

HI98

HIM3-4

M5E2

WM15

MOPC-21

Poly4053

Poly4053

Poly4053

Poly4053

Application

FC, IHC

FC

FC, IHC, IF, CyTOF®

FC, IHC

FC, ICFC, ICC, IF, IHC, IP, WB

FC

FC, ELISA, IHC, IF, WB

FC

FC

FC, ICC, ICFC

FC, ICFC



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