

Product Data Sheet

LEAF™ Purified anti-human CD33

Catalog # / Size: 303410 / 500 µg

Clone: WM53

Isotype: Mouse IgG1, κ

Workshop Number: IV M-505

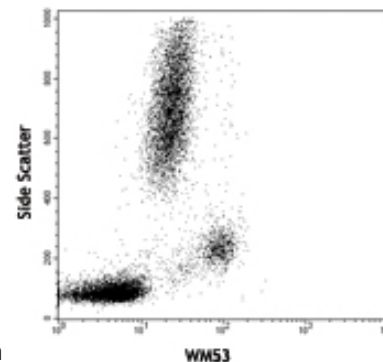
Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



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

Applications:

Applications: FC - *Quality tested*
 IP, WB, Costim - *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 or 100 µl of whole blood. 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**
 LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
 Cell Staining Buffer

Clone
 MOPC-21

Application
 FC, ICFC, WB, IP, ICC, IF, FA
 FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.