SONY

Product Data Sheet

PE anti-human CD33

Catalog # / Size: 2117015 / 25 tests
2117020 / 100 tests

Clone: WM53

Isotype: Mouse IgG1, κ

Immunogen: Human myeloid leukaemia cells.

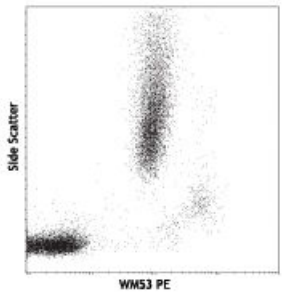
Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: IV M-505

Concentration: Lot-specific

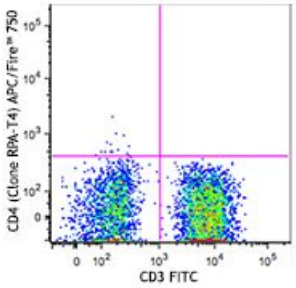


Human peripheral blood lymphocytes, monocytes and granulocytes stained with WM53 PE

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 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, Westrn blotting3, induction of cytokine production3, and immunofluorescence4. 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)
4. Perez-Oliva AB, *et al*. 2011. *Glycobiology*. 21:757. (epitope, FC, IF)

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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.

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