SONY

Product Data Sheet

PerCP/Cy5.5 anti-human CD33

Catalog # / Size: 2117070 / 100 tests
2117065 / 25 tests

Clone: WM53

Isotype: Mouse IgG1, κ

Immunogen: Human myeloid leukaemia cells.

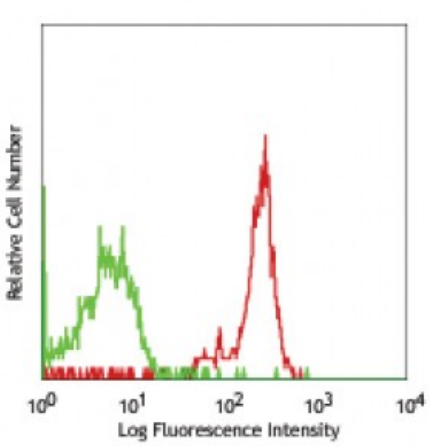
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: IV M-505

Concentration: Lot-specific



Human peripheral blood monocytes were stained with CD33 (clone WM53) PerCP/Cy5.5 (red histogram), or mouse IgG1, κ PerCP/Cy5.5 (green histogram).

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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

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. Pèrez-Oliva AB, *et al.* 2011. *Glycobiology*. 21:757. (epitope, FC, IF)
5. Capietto AH, *et al.* 2013. *J Exp Med.* 210:2257. PubMed
6. Kraus H, *et al.* 2014. *J. Immunol.* 192:1044. PubMed
7. Garg A, *et al.* 2014. *J Infect Dis.* 209:441. PubMed

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.