Alexa Fluor® 700 anti-human CD33

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Catalog # / Size:	2117180 / 100 tests 2117175 / 25 tests
Clone:	WM53
Isotype:	Mouse IgG1, κ
Immunogen:	Human myeloid leukaemia cells.
Reactivity:	Human, Non-human primate
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 700.
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
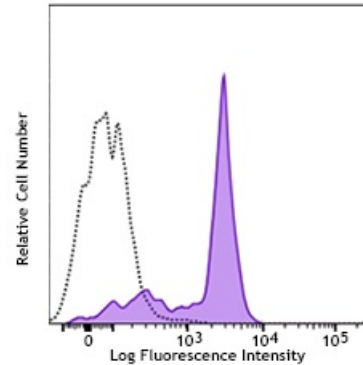
Human peripheral blood monocytes were stained with human CD33 (clone WM53) Alexa Fluor® 700 (filled histogram) or mouse IgG1,κ Alexa Fluor® 700 isotype control (open histogram).

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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation, Westrn blotting[3], induction of cytokine production[3], and immunofluorescence[4].
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)
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.