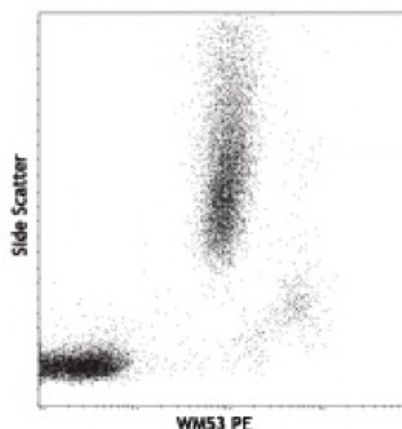


**PE anti-human CD33**

<b>Catalog # / Size:</b>	2117020 / 100 tests 2117015 / 25 tests
<b>Clone:</b>	WM53
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Human myeloid leukaemia cells.
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	IV M-505
<b>Concentration:</b>	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 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL 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 blotting<sup>3</sup>, induction of cytokine production<sup>3</sup>, and immunofluorescence<sup>4</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m 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)

**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.