

# Product Data Sheet

## PE anti-human CD33

**Catalog # / Size:** 303403 / 25 tests  
303404 / 100 tests

**Clone:** WM53

**Isotype:** Mouse IgG1,  $\kappa$

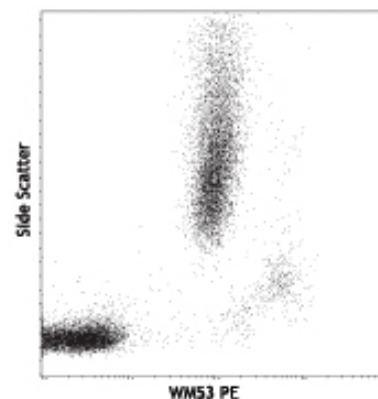
**Workshop Number:** IV M-505

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

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



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

## Applications:

**Applications:** FC - Quality tested

**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  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting<sup>3</sup>, and induction of cytokine production<sup>3</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)

**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**  
PE anti-human CD15 (SSEA-1)  
FITC anti-human CD33  
PE anti-human CD14  
PE anti-human CD13  
PE Mouse IgG1,  $\kappa$  Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
Human TruStain FcX™ (Fc Receptor Blocking Solution)

**Clone**  
HI98  
HIM3-4  
M5E2  
WM15  
MOPC-21

**Application**  
FC  
FC  
FC  
FC  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC, ICC, ICFC



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