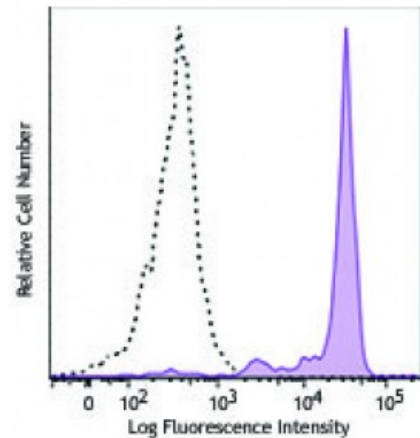


**Biotin anti-human CD33**

<b>Catalog # / Size:</b>	2117130 / 100 µg
<b>Clone:</b>	WM53
<b>Isotype:</b>	Mouse IgG1, κ
<b>Immunogen:</b>	Human myeloid leukaemia cells.
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Workshop Number:</b>	IV M-505
<b>Concentration:</b>	0.2



Human peripheral blood monocytes were stained with biotinylated anti-human CD33 (clone WM53) (filled histogram) or biotinylated mouse IgG1, κ (open histogram), followed by SAV-PE .

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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<b>Application Notes:</b>	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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303410).
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<b>Application References:</b>	1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. 2. Favalaro E, <i>et al.</i> 1988. <i>Br. J. Haematol.</i> 69:163. 3. Garnache-Ottou F, <i>et al.</i> 2005. <i>Blood</i> 105:1256. (WB) 4. Pèrez-Oliva AB, <i>et al.</i> 2011. <i>Glycobiology.</i> 21:757. (epitope, FC, IF)
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<b>Description:</b>	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.
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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.