

## CD33 Antibody PE Conjugate [clone WM53] (V2060PE)

Catalog No.	Formulation	Size
V2060PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests



Citations (5)

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<b>Species Reactivity</b>	Human
<b>Format</b>	PE Conjugate
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	WM53
<b>Purity</b>	Protein G affinity chromatography
<b>Gene ID</b>	945 (Human)
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 5ul/test/10 <sup>6</sup> cells in 0.1ml
<b>Limitations</b>	This antibody is available for research use only.



### Description

This antibody recognizes a 67kDa glycoprotein, which is identified as CD33 (HLDA IV; WS Code M-505). CD33 is a transmembrane protein of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. It belongs to the immunoreceptor tyrosine-based inhibitory motif (ITIM)-containing molecules able of recruiting protein tyrosine phosphatases SHP-1 and SHP-2 to signal assemblies; these ITIMs are also used for ubiquitin-mediated removal of the receptor from the cell surface. CD33 is expressed on cells of myelomonocytic lineage, binds sialic acid residues in N- and O-glycans on cell surfaces, and is a therapeutic target for acute myeloid leukemia. CD33 is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. It is absent on platelets, lymphocytes, erythrocytes and hematopoietic stem cells.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.

## Immunogen

Human AML cells were used as the immunogen for this CD33 antibody.

## Storage

Store the CD33 antibody at 2-8oC. The conjugate is light-sensitive, protect from light.

## References (1)