



T7-662-T100

## Monoclonal Antibody to CD33 PE-Cy<sup>™</sup>7 conjugated (100 tests)

Clone: WM53

**Isotype:** Mouse IgG1

Specificity: The mouse monoclonal antibody WM53 reacts with CD33, a 67 kDa type I

transmembrane glycoprotein (immunoglobulin superfamily) expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells; it is absent on

platelets, lymphocytes, erythrocytes and hematopoietic stem cells.

HLDA IV; WS Code M-505

Regulatory Status: RUO

Immunogen: Human AML cells

Species Reactivity: Human, Non-Human Primates

Preparation: The purified antibody is conjugated with tandem dye PE-Cy™7 under optimum

conditions. The conjugate is purified by size-exclusion chromatography and

adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

**Storage / Stability:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

**Usage:** The reagent is designed for Flow Cytometry analysis of human blood cells using 4

μl reagent / 100 μl of whole blood or 10<sup>6</sup> cells in a suspension.

The content of a vial (0.4 ml) is sufficient for 100 tests.

**Expiration:** See vial label

**Lot Number:** See vial label

Background: 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.



## PRODUCT DATA SHEET

## References:

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\*And many other.

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