

## TECHNICAL DATA SHEET

**CyFlow™ CD33 PerCP-Cy5.5  
Anti-Hu; Clone WM53****REF CU649508**

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**For Research Use Only.**  
**Not for use in diagnostic or therapeutic procedures.**

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## Specifications

<b>Antigen</b>	CD33
<b>Alternative Names</b>	p67, SIGLECT-3
<b>Clone</b>	WM53
<b>Clonality</b>	monoclonal
<b>Format</b>	PerCP-Cy5.5
<b>Host / Isotype</b>	Mouse / IgG1
<b>Species Reactivity</b>	Human, Non-Human Primates
<b>Negative Species Reactivity</b>	—
<b>Quantity</b>	100 tests
<b>Immunogen</b>	Human Acute Myelogenous Leukemia (AML) cells

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## Specificity

The mouse monoclonal antibody WM53 recognize CD33 antigen, 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

## Application

The reagent is designed for flow cytometry analysis of human blood cells. Recommended usage is 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.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.09% (w/v) sodium azide and 0.2% (w/v) BSA.

## Storage and Stability

<b>Storage</b>	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
<b>Stability</b>	Do not use after expiration date stamped on vial label.

## Background Information

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.

## Warnings

**Non-Hazardous Statement:** This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.



**Safety Data Sheet Statement:** Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet (SDS). SDS are available at <http://www.sysmex-partec.com/services>, or at <https://us.sysmex-flowcytometry.com/> (U.S. customers only).

## References

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## Symbols

<b>REF</b>	Reference number		Contains sufficient for <n> tests
<b>RUO</b>	For research use only		Temperature limit
<b>LOT</b>	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use-by date		Unique device identifier

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