

**MOUSE ANTI-HUMAN CD33 R-PE/Cy5 CONJUGATED
MONOCLONAL ANTIBODY****CATALOG NUMBER:** CBL163PC **QUANTITY:** 100 test/1 mL**LOT NUMBER:****ALTERNATE NAMES:** gp67, Sialic acid-binding Ig-like lectin 3, Siglec-3**CLONE NAME:** WM53 **HOST/ISOTYPE:** Ms IgG1

BACKGROUND: CD33 is a transmembrane receptor expressed on cells of monocytic/myeloid lineage. It binds sialic acids, therefore is a member of the SIGLEC family of lectins. The extracellular portion of this receptor contains two immunoglobulin domains (one IgV and one IgC2 domain), placing CD33 within the immunoglobulin superfamily. The intracellular portion of CD33 contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that are implicated in inhibition of cellular activity. CD33 is also the target of gemtuzumab ozogamicin, a monoclonal antibody-based treated for acute myeloid leukemia.

SPECIFICITY: The WM-53 monoclonal antibody reacts with human CD33, also known as GP67 and P67, a 67 kDa type I transmembrane glycoprotein that is a member of the Siglec (sialic acid-binding Ig superfamily lectin) family. It is highly specific to the hematopoietic compartment and is expressed on monocytes, activated T cells, granulocytes, myeloid progenitors, and mast cells.
The antigen has homology with CD22 and myelin associated glycoprotein.

APPLICATIONS: Flow cytometry: For flow cytometry we recommend using 10µL of conjugate per test. WM53 is useful for phenotyping of leukaemias, useful in distinguishing myelogenous leukaemias from lymphoid or erythroid leukaemias.
Bone marrow purging in autologous bone marrow transplantation.

Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Reacts with Human. Reactivity with other species has not been determined.

PRESENTATION: The conjugate in phosphate buffered saline containing 10mM sodium azide and 1mg/ml bovine serum albumin.

STORAGE/HANDLING: Store at +4°C protected from light. DO NOT FREEZE. For long term use and storage aliquot conjugate into small volumes and store at +4°C in the dark for up to one year.

REFERENCES:
Favaloro, E. (1993). J. Immunol. & Cell Biol. 71:571081.
Leucocyte Typing IV (1989). Oxford University Press
Leucocyte Typing III (1987). Oxford University Press
Favaloro, E. et al. (1986). Br. J. Haem. 69:163-71.

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Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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