



11-365-C025

## Monoclonal Antibody to CD33 Purified Antibody (0.025 mg)

<b>Clone:</b>	HIM3-4
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody HIM3-4 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 V; WS Code M MA112 HLDA VI; WS Code M MA47
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	NFMY-9s human cell line
<b>Species Reactivity:</b>	Human, Non-Human Primates
<b>Application:</b>	Flow Cytometry
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
<b>References:</b>	*Ulyanova T, Blasioli J, Woodford-Thomas TA, Thomas ML: The sialoadhesin CD33 is a myeloid-specific inhibitory receptor. <i>Eur J Immunol.</i> 1999 Nov;29(11):3440-9. *Walter RB, Häusermann P, Raden BW, Teckchandani AM, Kamikura DM, Bernstein ID, Cooper JA: Phosphorylated ITIMs Enable Ubiquitylation of an Inhibitory Cell Surface Receptor. <i>Traffic.</i> 2007 Dec 18 *Orr SJ, Morgan NM, Elliott J, Burrows JF, Scott CJ, McVicar DW, Johnston JA: CD33 responses are blocked by SOCS3 through accelerated proteasomal-mediated turnover. <i>Blood.</i> 2007 Feb 1;109(3):1061-8. *Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995). *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997). *McCormack E, Mujic M, Osdal T, Bruserud O, Gjertsen BT: Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia. <i>Blood.</i> 2013 Feb 14;121(7):e34-42. doi: 10.1182/blood-2012-05-429555.

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