

Product datasheet

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ARG22171 anti-CD33 antibody [WM53] (PE-Cyanine 5)

Package: 50 tests Store at: 4°C

Summary

Product Description PE-Cyanine 5-conjugated Mouse Monoclonal antibody [WM53] recognizes CD33

Tested Reactivity Hu

Tested Application BL, FACS, ICC/IF, IHC-Fr, WB

CD33

Specificity Human CD33

Host Mouse

Clonality Monoclonal

Clone WM53

Isotype IgG1, kappa

Target Name **Species** Human

Immunogen Human AML cells.

PE-Cyanine 5 Conjugation

p67; Sialic acid-binding Ig-like lectin 3; SIGLEC-3; CD antigen CD33; gp67; Siglec-3; Myeloid cell surface **Alternate Names**

antigen CD33; SIGLEC3

Application Instructions

Application table	Application	Dilution
	BL	Assay-dependent
	FACS	10 μl/10^6 cells
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid	
Buffer	PBS, 0.1% Sodium azide and Sucrose.	
Preservative	0.1% Sodium azide	
Stabilizer	Sucrose	

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

arigo. nuts about antibodies www.arigobio.com 1/2 gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links <u>GeneID: 945 Human</u>

Swiss-port # P20138 Human

Gene Symbol CD33

Gene Full Name CD33 molecule

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.

Function CD33: Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell

interactions and in maintaining immune cells in a resting state (PubMed:10611343, PubMed:15597323, PubMed:11320212). Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans (PubMed:7718872). Upon engagement of ligands such as C1q or syalylated glycoproteins, two immunoreceptor tyrosine-based inhibitory motifs (ITIMs) located in CD33

cytoplasmic tail are phosphorylated by Src-like kinases such as LCK (PubMed:28325905,

PubMed:10887109). These phosphorylations provide docking sites for the recruitment and activation of

protein-tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2 (PubMed:10556798,

PubMed:10206955, PubMed:10887109). In turn, these phosphatases regulate downstream pathways through dephosphorylation of signaling molecules (PubMed:10206955, PubMed:10887109). One of the

repressive effect of CD33 on monocyte activation requires phosphoinositide 3-kinase/PI3K

(PubMed:15597323). [UniProt]

CD33 antibodies; CD33 ELISA Kits; CD33 Duos / Panels; Anti-Mouse IgG secondary antibodies;

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derived suppressor cell antibody

Calculated Mw 40 kDa

Highlight

PTM Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is

involved in binding to PTPN6.