CD33 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD33, Polyclonal Antibody
Full Product Name	CD33, ID (CD33, Siglec 3, Myeloid cell surface antigen CD33, Sialic acid-binding Ig-like lectin 3, gp67, CD33) (MaxLight 750)
Product Gene Name	anti-CD33 antibody
Product Synonym Names	CD33; SIGLEC3; Myeloid cell surface antigen CD33; Sialic acid-binding Ig-like lectin 3; gp67; CD33
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CD33.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,825 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (51728335..51743274). Location: 19q13.3
OMIM	159590
3D Structure	ModBase 3D Structure for P20138
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 88-117 in the central region of human CD33, UniProt Accession #P20138.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CD33 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD33 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CD33 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-CD33 antibody	MBS6283113 is an antibody targeting CD33. Also known as CD33, ID (CD33, Siglec 3, Myeloid cell surface antigen CD33, Sialic acid-binding Ig-like lectin 3, gp67, CD33) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CD33 antibody	1. Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010). 2. Davila, S., et al. Genes Immun. 11(3):232-238(2010). 3. Akahane, K., et al. Leukemia 24(4):865-869(2010). 4. Shamsasenjan, K., et al. Int. J. Hematol. 89(3):310-318(2009). 5. Bertram, L., et al. Am. J. Hum. Genet. 83(5):623-632(2008).

Other Notes	Small volumes of anti-CD33 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD33. It may not necessarily be applicable to this product.

NCBI GI #	130979981
NCBI GeneID	945
NCBI Accession #	NP_001763.3
UniProt Primary Accession #	P20138
UniProt Secondary Accession #	Q8TD24
UniProt Related Accession #	P20138; Q546G0; Q8NF11
GenBank Nucleotide #	NM_001772.3
NCBI Official Full Name	myeloid cell surface antigen CD33 isoform 1
NCBI Official Synonym Full Names	CD33 molecule
NCBI Official Symbol	CD33
NCBI Official Synonym Symbols	p67; SIGLEC3; FLJ00391; SIGLEC-3
UniProt Protein Name	Myeloid cell surface antigen CD33
UniProt Synonym Protein Names	Sialic acid-binding Ig-like lectin 3; Siglec-3; gp67; CD_antigen: CD33
Protein Family	Myeloid cell surface antigen
UniProt Gene Name	CD33
UniProt Synonym Gene Names	SIGLEC3; Siglec-3
UniProt Entry Name	CD33_HUMAN
NCBI Protein Information	myeloid cell surface antigen CD33; gp67; CD33 antigen (gp67); sialic acid binding Ig-like lectin 3; sialic acid-binding Ig-like lectin 3
UniProt Comments for CD33	CD33: Putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Induces apoptosis in acute myeloid leukemia (in vitro). Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family. Protein type: Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: integral to plasma membrane; plasma membrane; external side of plasma membrane Molecular Function: protein binding; receptor activity; carbohydrate binding Biological Process: negative regulation of cell proliferation; cell-cell signaling; signal transduction; cell adhesion
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