CD33 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD33, Antibody
Full Product Name	CD33
Product Gene Name	anti-CD33 antibody
Product Synonym Names	CD33
Isotype	IgG1
Clone Number	FOS
Host	Mouse
Species Reactivity	Human
Form/Format	Provided as solution in phosphate buffered saline with 0.08% sodium azide
Purity/Purification	Protein A/G Chromatography
Preparation and Storage	Product should be stored at -20 degree C. Aliquot to avoid freeze/thaw cycles
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	CD33=Derived from the hybridization of mouse Sp2/0 myeloma cells with spleen cells from BALB/c mice immunized with FMY9S5 cells containing the CD33 gene.
Product Categories/Family for anti-CD33 antibody	Single-Color Reagent; Single Color Markers
Applications Tested/Suitable for anti-CD33 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD33 antibody	Identification of human Monocytes (bright) and Granulocytes (dim) expressing the 67kDa M.W. surface antigen. CD33 is also found on CFU-mix, CFU-GM, CFU-Meg, a portion of BFU-E, myeloblasts, promyelocytes, myelocytes, metamyelocytes but not early precursors
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.
Searchable Terms for CD33 purchase	MBS396592 is an antibody targeting CD33. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	130980072
NCBI GeneID	945
NCBI Accession #	NP_001076087.1
UniProt Primary Accession #	P20138

UniProt Secondary Accession #	Q8TD24; B4E3P8; C9JEN7; F8WAL2
UniProt Related Accession #	P20138
GenBank Nucleotide #	NM_001082618.1
NCBI Official Full Name	myeloid cell surface antigen CD33 isoform 2
NCBI Official Synonym Full Names	CD33 molecule
NCBI Official Symbol	CD33
NCBI Official Synonym Symbols	p67; SIGLEC3; SIGLEC-3
UniProt Protein Name	Myeloid cell surface antigen CD33
UniProt Synonym Protein Names	Sialic acid-binding Ig-like lectin 3; Siglec-3; gp67
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	Function: 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). Ref.9 Ref.11 Subunit structure: Interacts with PTPN6/SHP-1 and PTPN11/SHP-2 upon phosphorylation. Ref.9 Ref.10 Subcellular location: Cell membrane; Single-pass type I membrane protein. Tissue specificity: Monocytic/myeloid lineage cells. Domain: Contains 2 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM). This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases. Post-translational modification: Phosphorylation of Tyr-340 is involved in binding to PTPN6 and PTPN11. Phosphorylation of Tyr-358 is involved in binding to PTPN6. Sequence similarities: Belongs to the immunoglobulin superfamily. SIGLEC (sialic acid binding Ig-like lectin) family.Contains 1 Ig-like C2-type (immunoglobulin-like) domain.Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Research Articles on CD33	**1.** results support the view that single-nucleotide polymorphisms in GOLPH2 and in near gene 5' region of CD33 are significantly associated with sporadic Alzheimer's disease in the north Chinese Han population.
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