

Myeloid cell surface antigen CD33 (CD33) Active Protein | CD33 active protein

Recombinant Human Myeloid cell surface antigen CD33 (CD33), partial (Active)

CATALOG # AAA279195	HOST Mammalian cell
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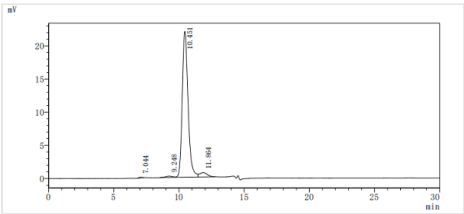
PRODUCT SYNONYMS

Myeloid cell surface antigen CD33 (CD33); Recombinant Human Myeloid cell surface antigen CD33 (CD33); partial (Active); Sialic acid-binding Ig-like lectin 3; Siglec-3; gp67; CD33; SIGLEC3; CD33 active protein

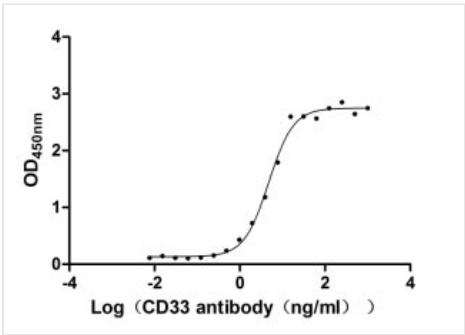
PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	18-259aa; Partial
Sequence	DPNFWLQVQE SVTVQEGLCV LVPCTFFHPI PYYDKNSPVH GYWFREGAII SRDSPVATNK LDQEVQEETQ GRFRLLGDPS RNNCSLSIVD ARRRDNGSYF FRMERGSTKY SYKSPQLSVH VTDLTHRPKI LIPGTLEPGH SKNLTCVSW ACEQGTPIF SWLSAAPTSL GPRTTSSVL IITPRPDHG TNLTCQVKFA GAGVTTERTI QLNVTYVPQN PTTGIFPGDG SGKQETRAGV VH\$
Species	Homo sapiens (Human)
Tag	C-terminal hFc-Myc-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD33 at 2 ug/ml can bind Anti-CD33 rabbit monoclonal antibody, the EC50 of human CD33 protein is 4.289- 5.312 ng/ml.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

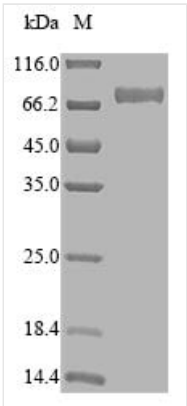
IMAGES



Application Data
The purity of Human CD33 was greater than 90% as determined by SEC-HPLC



Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized CD33 at 2 ?g/ml can bind Anti-CD33 rabbit monoclonal antibody, the EC50 of human CD33 protein is 4.289- 5.312 ng/ml



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for CD33 active protein	Sialic-acid-binding immunoglobulin-like lectin that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state. Preferentially recognizes and binds alpha-2,3- and more avidly alpha-2,6-linked sialic acid-bearing glycans. Upon engagement of ligands such as C1q or sialylated glycoproteins, two immunoreceptor tyrosine-based inhibitory motifs located in CD33 cytoplasmic tail are phosphorylated by Src-like kinases such as LCK. These phosphorylations provide docking sites for the recruitment and activation of protein-tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2. In turn, these phosphatases regulate downstream pathways through dephosphorylation of signaling molecules. One of the repressive effect of CD33 on monocyte activation requires phosphoinositide 3-kinase/PI3K.
Product Categories/Family for CD33 active protein	Active Protein & In Stock Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	116241290
NCBI GeneID	945
UniProt Accession #	P20138; Q8TD24; B4E3P8; C9JEN7; F8WAL2
Molecular Weight	Calculated MW: 25kDa/33kDa/39kDa Observed MW: 77kDa
NCBI Official Full Name	Myeloid cell surface antigen CD33
NCBI Official Synonym Full Names	CD33 molecule

NCBI Official Symbol	CD33
NCBI Official Synonym Symbols	p67; SIGLEC3; SIGLEC-3
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 Protein Name	Myeloid cell surface antigen CD33
UniProt Gene Name	CD33
UniProt Synonym Gene Names	SIGLEC3; Siglec-3
UniProt Entry Name	CD33_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/mammalian-active-protein/myeloid-cell-surface-antigen-cd33-cd33/279195>