

CD33 recombinant protein

Recombinant human CD33 protein with C-terminal human Fc and 6xHis tag

CATALOG # AAA47219	HOST HEK293 cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

CD33; Recombinant human CD33 protein with C-terminal human Fc and 6xHis tag; Human CD33 Protein; hFc-His Tag; CD33;SIGLEC3;gp67; CD33 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 cells
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-44% trehalose is added as protectants before lyophilization.
Sequence	CD33(Asp18 -His259)+h Fc(Glu99-A la330)
Applicable Applications for CD33 recombinant protein	WB (Western Blot)
Source	Human
Conjugation	C-Human Fc and 6xHis tag
Reconstitution	Reconstitute with deionized water
Preparation and Storage	Store at -80 degree C for 12 months (Avoid repeated freezing and thawing) Shipping: Blue Ice

IMAGES

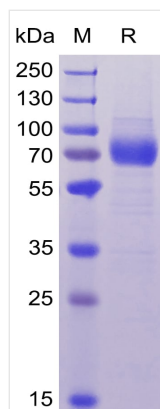

SDS-PAGE

Figure 1. Human CD33, hFc-His Tag on SDS-PAGE under reducing condition.

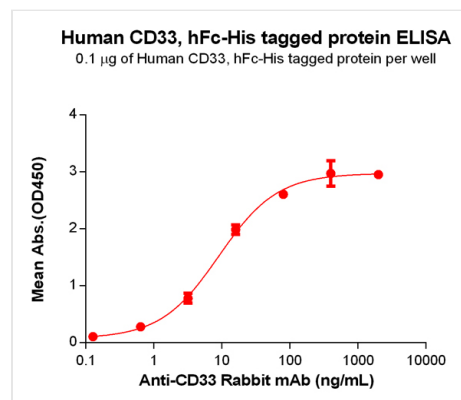

ELISA

Figure 1. Human CD33, hFc-His Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

Related Product Information for CD33 recombinant protein	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. 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 (ITIMs) 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.
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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.