



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

<b>Product Code</b>	CSB-MP004925HU
<b>Relevance</b>	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 .
<b>Abbreviation</b>	Recombinant Human CD33 protein, partial (Active)
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P20138
<b>Form</b>	Lyophilized powder
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized CD33 at 2 µg/ml can bind Anti-CD33 rabbit monoclonal antibody, the EC <sub>50</sub> of human CD33 protein is 4.289- 5.312 ng/ml.
<b>Purity</b>	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC.
<b>Sequence</b>	DPNFWLQVQESVTVQEGLCVLPCTFFHPIPPYYDKNSPVHGYWFRGAIISRDS SPVATNKLDQEVQEETQGRFRLLGDPSRNNCSLSIVDARRRDNGSYFFRMER GSTKYSYKSPQLSVHVTDLTHRPKILIPGTLEPGHSKNLTCVSWACEQGTPPI FSWLSAAPTSLGPRTTTHSSVLIITPRPQDHGNTLTCQVKFAGAGVTTERTIQLN VTYVPQNPTTGIFPGDGSQKQETRAGVVH
<b>Research Area</b>	Cancer
<b>Source</b>	Mammalian cell
<b>Target Names</b>	CD33
<b>Expression Region</b>	18-259aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

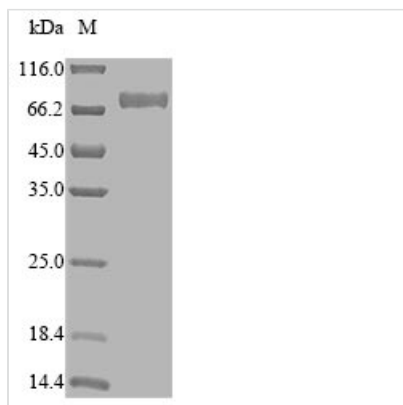


**Tag Info** C-terminal hFc1-Myc-tagged

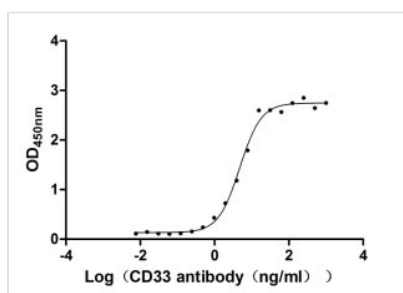
**Mol. Weight** 56.9 kDa

**Protein Length** Partial

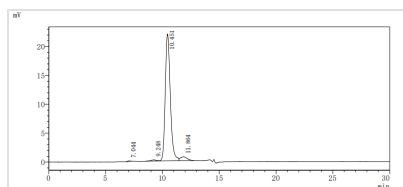
**Image**



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



**Activity**  
Measured by its binding ability in a functional ELISA. Immobilized CD33 at 2 µg/ml can bind Anti-CD33 rabbit monoclonal antibody, the EC<sub>50</sub> of human CD33 protein is 4.289- 5.312 ng/ml.



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

**Endotoxin** Less than 1.0 EU/ug as determined by LAL method.

**Reconstitution** 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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life** 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.