



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

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| Product Code | CSB-MP004925HU |
| Relevance | 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 . |
| Abbreviation | Recombinant Human CD33 protein, partial (Active) |
| 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| Uniprot No. | P20138 |
| Form | Lyophilized powder |
| Product Type | Others |
| Immunogen Species | Homo sapiens (Human) |
| Biological 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 ₅₀ of human CD33 protein is 4.289- 5.312 ng/ml. |
| Purity | Greater than 95% as determined by SDS-PAGE. Greater than 90% as determined by SEC-HPLC. |
| Sequence | DPNFWLQVQESVTVQEGLCVLVPCTFFHPIPIYYDKNSPVHGYWFREGAIIIRD SPVATNKLDQEVQEETQGRFRLLDGDPNRNCSLSIVDARRRDNGSYFFRMER GSKYSYKSPQLSVHVTDLTHRPKILIPGTLEPGHSKNLTCVSWACEQGTPPI FSWLSAAPTSLGPRTHSSVLIITPRPQDHGTNLTCQVKFAGAGVTTERTIQLN VTYVPQNPTTGIFPGDGSGKQETRAGVVH |
| Research Area | Cancer |
| Source | Mammalian cell |
| Target Names | CD33 |
| Expression Region | 18-259aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

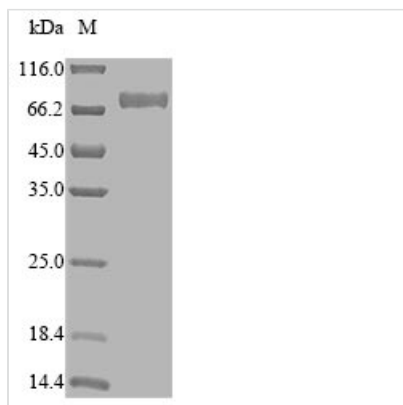


Tag Info C-terminal hFc1-Myc-tagged

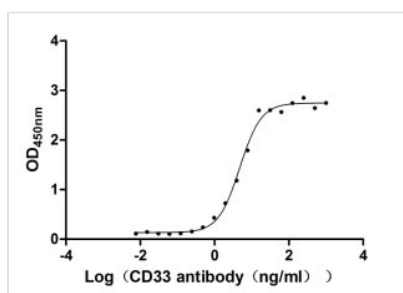
Mol. Weight 56.9 kDa

Protein Length Partial

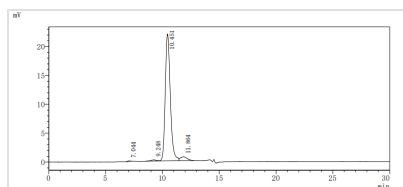
Image



(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 EC₅₀ 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.