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# **CD33 Protein (CD33) (AA 18-259) (Fc-His Tag)**



# Image



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Quantity:	100 μg
Target:	CD33
Protein Characteristics:	AA 18-259
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD33 protein is labelled with Fc-His Tag.

#### **Product Details**

Purpose:	Recombinant human CD33 protein with C-terminal human Fc and 6xHis tag	
Specificity:	CD33 (Asp18-His259) hFc (Glu99-Ala330) 6xHis tag	
Characteristics:	Extracellular Domain Protein	
Purification:	Purified from cell culture supernatant by affinity chromatography	
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.	

## **Target Details**

Target:	CD33
Alternative Name:	CD33 (CD33 Products)
Background:	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 syalylated 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.

Molecular Weight:

predicted molecular mass of 53.8 kDa after removal of the signal peptide.

Gene ID:

945

UniProt:

P20138

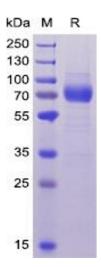
#### **Application Details**

Restrictions:

For Research Use only

## Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally $5\% - 8\%$ trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months



#### **SDS-PAGE**

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