

Datasheet for ABIN7092843

CD33 Protein (CD33) (AA 140-259) (Fc Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	CD33
Protein Characteristics:	AA 140-259
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD33 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human CD33 protein with C-terminal human Fc tag
Specificity:	CD33 (Asp140-His259) hFc (Glu99-Ala330)
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

Target Details

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.

Molecular Weight: predicted molecular mass of 38.9 kDa after removal of the signal peptide.

UniProt: [P20138](#)

Application Details

Restrictions: For Research Use only

Handling

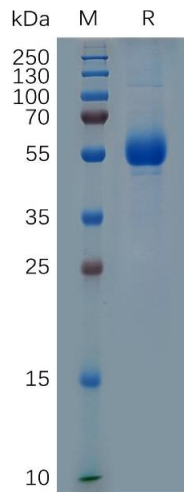
Format: Lyophilized

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 Tag on SDS-PAGE under reducing condition.