

Datasheet for ABIN6961110
CD33 Protein (CD33) (Fc-His Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	CD33
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:	affinity purification
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:	Synonyms: CD33,SIGLEC3,gp67 Description: 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

Target Details

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 53.8 kDa after removal of the signal peptide.
-------------------	---

Gene ID:	945
----------	-----

UniProt:	P20138
----------	------------------------

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
--------------------	--

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
---------	-------------

Reconstitution:	Reconstitute with deionized water
-----------------	-----------------------------------

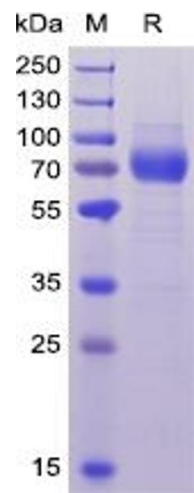
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
---------	---

Preservative:	Without preservative
---------------	----------------------

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.