

Recombinant Human CD33 Protein, His-tagged

Cat. No. CD33-190H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD33 Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CD33, a type I transmembrane protein, is a sialic acid-binding Ig-like lectin (Siglec-3) of the Ig superfamily, and human CD33 binds preferentially to alpha-2, 6-linked sialic acid. Upon binding to its ligands CD33 transduces an inhibitory signaling through the immunoreceptor tyrosine-based inhibitory motif (ITIM) in its intracellular domain, inhibiting cellular function such as phagocytosis. In addition, CD33 is also involved in other processes, such as adhesion. Due to its exclusive expression on hematopoietic cells, particularly the myeloid lineage and their progenitors, CD33 has been actively pursued as a therapeutic target against acute myeloid leukemia (AML). CD33 may also be involved in Alzheimer's Disease.
Molecular Mass	~33 kDa
AA Sequence	DPNFWLQVQESVTVQEGLCVLVPCTFFHPIPYDKNSPVHGYWFRGAIISRDSPVA TNKLDQEVQEETQGRFRLLGDPSRNNCSLSIVDARRRDNGSYFFRMERGSTKYSY KSPQLSVHVTDLTHRPKILIPGTLEPGHSKNLTCSVSWACEQGTPIFSWLSAAPTSL GPRTHSSVLIITPRPQDHGTNLTCQVKFAGAGVTTERTIQLNVTYVPQNPTTGIFPG DGSGKQETRAGVVH
Purity	Transferred into competent cells and the supernatant was purified by NI column

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affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

CD33 CD33 molecule [Homo sapiens (human)]

Official Symbol

CD33

Synonyms

CD33; CD33 molecule; CD33 antigen (gp67); myeloid cell surface antigen CD33; FLJ00391; p67; sialic acid binding Ig like lectin 3; SIGLEC 3; SIGLEC3; gp67; sialic acid binding Ig-like lectin 3; sialic acid-binding Ig-like lectin 3; SIGLEC-3;

Gene ID

945

mRNA Refseq

NM_001082618

Protein Refseq

NP_001076087

MIM

159590

UniProt ID

P20138

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