

Active Recombinant Human CD33, Fc-tagged, Biotinylated

Cat. No. CD33-675H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CD33-Fc is expressed as a 471 amino acid protein consisting of Asp18 - Gly260 region of CD33 and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	18-260 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Immobilized protein supports the adhesion of human red blood cells. Binds anti-CD33/SIGLEC-3 monoclonal antibody, human IgG1 with high affinity ($KD < 10$ nM) by a functional ELISA.
Molecular Mass	Calculated molecular mass (kDa): 52.5; Estimated by SDS-PAGE under reducing condition (kDa): 65-75 (probably due to glycosylation)
AA Sequence	DPNFWLQVQESVTVQEGLCVLVPCTFFHPIPPYYDKNSPVHGYWFRREGAII SRDSPVA TNKLDQEVQEETQGRFR LLGDPSRNNCSLSIVDARRRDNGSYFFRMERGSTKY SY KSPQLSVHVTDLTHRPKILIPGTLEPGH SKNL TCSV SWACEQGTPIFSWLSA APTS LGPRTHSSVLIITPRPQDHGTNLTCQVKFAGAGVTTERTIQLNVTYVPQNP TTGIFP GDGSGKQETRAGVVHGSTGTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEV

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TCVVVDVSHEDP EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWL
 NGKEYKCKVSNKALPAPIEKTISKAKGQPR EPQVYTLPPSREEMTKNQVSLTCLVK
 GFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQ QGNVFSC
 SVMHEALHNNHYTQKSLSLSPGK

Endotoxin

<0.1 eu per 1 µg of purified recombinant protein determined by the lal>

Purity

>95% judged by SDS-PAGE under reducing condition

Storage

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation

Biotin

GENE INFORMATION

Gene Name

CD33 CD33 molecule [Homo sapiens]

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

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Protein Refseq	NP_001076087
MIM	159590
UniProt ID	P20138
Chromosome Location	19q13.3
Pathway	Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	receptor activity; sugar binding;

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