

Recombinant Human CD33 Protein, Fc-tagged, FITC conjugated

Cat. No. CD33-459HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

FITC conjugated recombinant human Siglec-3 was fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified *human 293 cells*.

Species

Human

Source

HEK293

Description

Siglecs (or sialic acid-binding immunoglobulin superfamily lectins) are sialic acid-binding Ig-like lectins characterized by a homologous N-terminal V-set Ig-like domain and varying numbers of C2-set Ig-like domains. In humans 11 Siglecs have been described. Siglec-3 (CD33) is the smallest Siglec, with only 2 of these C2-set Ig domains. Siglec-3 is a 67 kDa glycoprotein found predominantly on myeloid cells, including early myeloid precursors in the bone marrow and certain subsets of mature circulating myeloid cells. Siglec-3 has also been reported on dendritic cells, cord blood-derived natural killer (NK) cells, in vitro expanded T cells, and some biphenotypic leukemias. Siglec-3 was initially described as a marker for normal and leukemic myeloid progenitor cells, but has received renewed interest due to its demonstrated lectin activity for alpha 2-6 and alpha 2-3 sialylated N-linked oligosaccharides expressed on red blood cells (RBCs) and certain myeloid cells.

Molecular Mass

Siglec-3-Fc Chimera migrates as a broad band between 60 and 75 kDa on SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified Siglec-3-Fc Chimera that has a predicted molecular mass of 54

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	kDa.
N-terminal Sequence Analysis	<p>Theoretical Sequence: DPNFWLQVQESVTVQEG LCVLVPCTFFHPIPYDKNS PVHGYWFREGAIISGDS P VAT NKLD QEVQEETQG RFRLLDGDSRNNCSLSI VDARRRDNGSYFFRMERG S T KYSYKSPQLSVH VTDLTHRPKILIPGTLE PGHSKNLTCSVSWA CE QG TPP IFS WLSAA PTSLGPRRTHSSVLIITPR PQDHGTNLTCQVKFAGA GV TT ER TIQ LN VT YV PQNPT TGIFPGD GSGKQETRAGVVH RSSNTKVDKKVEPKSCD KT HT CP PC PA PELLGG PSVFLFPPKPKDTLMI SRTPEVTCVVVDVSH EDPEVKFNWYVDGVE VH NAKTKPREEQYN STYRVVSVLTVLHQ DWLNGKEYKCKVS N KA LP AP IE KT IS KA KGQPREPQVYTL P PSRDELTKNQVSL TCLVKGFYPSDIAV EW ESN GQ PE NN YKTTTPVLDS DG SFFLYSKLTVDKS RWQQGNVFCSSV MHEALHNHYTQK SL SLSPGK.</p>
Purity	> 95 % as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.
Characteristic	<p>Disulfide-linked homodimer Labeled with FITC via amines Excitation source: 488 nm spectral line, argon-ion laser Excitation Wavelength: 488 nm Emission Wavelength: 535 nm</p>
Storage	Lyophilized products should be stored at 2 to 8 centigrade. Following reconstitution short-term storage at 4 centigrade is recommended, with longer-term storage in aliquots at -18 to -20 centigrade.
Storage Buffer	When reconstituted in 0.5 mL sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 mL of sterile phosphate-buffered saline be added to the

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vial.

Conjugation FITC**GENE INFORMATION****Gene Name** CD33 CD33 molecule [Homo sapiens]**Official Symbol** CD33**Synonyms** CD33 molecule; p67; SIGLEC3; FLJ00391; SIGLEC-3; CD33; CD33 antigen (gp67); CD33 antigen; gp67; Siglec-3; Sialic acid-binding Ig-like lectin 3**Gene ID** 945**mRNA Refseq** NM_001082618**Protein Refseq** NP_001076087**MIM** 159590**UniProt ID** P20138 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA