

Recombinant Full Length Human SIGLEC12 Protein, C-Flag-tagged

Cat. No. SIGLEC12-444HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SIGLEC12 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. This gene encodes a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. This gene is located in a cluster with other SIGLEC3-like genes on 19q13.4. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	63 kDa
AA Sequence	MLLLLLLLPPLLCGRVGAKQKDYLLTMQKSVTVQEGLCVSVLCFSYPQNGWTAS DPVHGYSWFRAGDHV SRNIPVATNNPARAVQEETRDRFHLLGDPQNKDCTLSIRDT RES DAGTYVFCVERGNMKWNYKYDQLSVN VTASQDLLSRYRLEVPESTVTVQEGLC VSVPCSVLYPHYNWTASSPVYGSWFKEGADIPWDIPVATNTPSG KVQEDTHGRFL LLGDPQTNNCSLSIRDARKGDSGKYFQVERGSRKWNYYDKLSVHVTALHMPPTF SIP GTLESGHPRNLTCSPWACEQGTPTITWMGASVSSLDPTITRSSMLSLIPQPQ DHGTS LTCQVTLPGAG VTMTRAVRLNISYPQNLMTVFQGDGTASTTLRNGSALS VLEGQSLHLVCAVDSNPPARLSWTWGS LTL SPSQSSNLGVLELPRVHVKDEGEFT CRAQNPLGSQHISLSLSLQNEYTGKMRPISGVTLGAFGGAGATAL VFLYFCIIFVVVR SCRKKSARPAVGVDGTGMEDANAVRG SASQG PLIESPADDSPPHHAPPALATPSP EE GEIQYASLSFHKARPQYPQEQAIGYEYSEINIPKTRTRPLEQKLISEEDLAANDILDY KDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency, Transmembrane

Full Length
Full L.

GENE INFORMATION

Gene Name SIGLEC12 sialic acid binding Ig like lectin 12 [Homo sapiens (human)]

Official Symbol SIGLEC12

Synonyms S2V; SLG; SIGLECL1; Siglec-XII

Gene ID 89858

mRNA Refseq NM_053003.4

Protein Refseq NP_443729.1

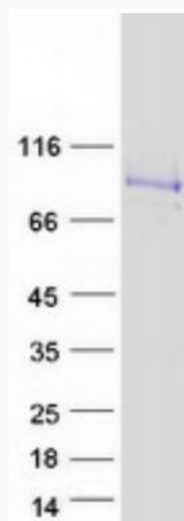
MIM 606094

UniProt ID Q96PQ1

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Coomassie blue staining of purified SIGLEC12 protein.

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