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

Cat. No. SPN-1075HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPN Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a highly sialylated glycoprotein that functions in antigen-specific activation of T cells, and is found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It contains a mucin-like extracellular domain, a transmembrane region and a carboxy-terminal intracellular region. The extracellular domain has a high proportion of serine and threonine residues, allowing extensive O-glycosylation, and has one potential N-glycosylation site, while the carboxy-terminal region has potential phosphorylation sites that may mediate transduction of activation signals. Different glycoforms of this protein have been described. In stimulated immune cells, proteolytic cleavage of the extracellular domain occurs in some cell types, releasing a soluble extracellular fragment. Defects in expression of this gene are associated with Wiskott-Aldrich syndrome.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	40.1 kDa
AA Sequence	MATLLLLLGVLVVSPDALGSTTAVQTPTSGEPLVSTSEPLSSKMYTTSITSDPKADST GDQTSALPPSTS INEGSPLWTSIGASTGSPLPEPTTYQEVSIKMSSVPQETPHATSH

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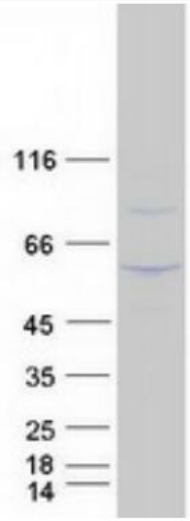
	PAVPITANSLGSHTVTGGTITTNSP ETSSRTSGAPVTTAASSLETSRGTSGPPLTMA TVSLETSKGTSGPPVTMATDSLETSTGTTGPPVTMTTG SLEPSSGASGPQVSSVKL STMMSPTTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLLWRRR QKRR TGALVLSRGGKRNGVVDAWAGPAQVPEEGAVTVTVGGSGGDKGSGFPDGEGSSR RPTLTTFFGRRK SRQGSLAMEELKSGSGPSLKGEEEPLVASEDGAVDAPAPDEPEGGDGAAPTRTRP LEQKLISEEDLAANDILDYKDDDDKV
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, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways	Cell adhesion molecules (CAMs)
Full Length	Full L.

GENE INFORMATION

Gene Name	SPN sialophorin [Homo sapiens (human)]
Official Symbol	SPN

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Synonyms	LSN; CD43; GALGP; GPL115; LEU-22
Gene ID	6693
mRNA Refseq	NM_003123.6
Protein Refseq	NP_003114.1
MIM	182160
UniProt ID	P16150



Coomassie blue staining of purified SPN protein.

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