

Recombinant Full Length Human NCAM1 Protein, C-Flag-tagged

Cat. No. NCAM1-253HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NCAM1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a cell adhesion protein which is a member of the immunoglobulin superfamily. The encoded protein is involved in cell-to-cell interactions as well as cell-matrix interactions during development and differentiation. The encoded protein plays a role in the development of the nervous system by regulating neurogenesis, neurite outgrowth, and cell migration. This protein is also involved in the expansion of T lymphocytes, B lymphocytes and natural killer (NK) cells which play an important role in immune surveillance. This protein plays a role in signal transduction by interacting with fibroblast growth factor receptors, N-cadherin and other components of the extracellular matrix and by triggering signalling cascades involving FYN-focal adhesion kinase (FAK), mitogen-activated protein kinase (MAPK), and phosphatidylinositol 3-kinase (PI3K). One prominent isoform of this gene, cell surface molecule CD56, plays a role in several myeloproliferative disorders such as acute myeloid leukemia and differential expression of this gene is associated with differential disease progression. For example, increased expression of CD56 is correlated with lower survival in acute myeloid leukemia patients whereas increased severity of COVID-19 is correlated with decreased abundance of CD56-expressing

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	NK cells in peripheral blood. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	94.4 kDa
AA Sequence	MLQTKDLIWLFFLGTAVSLQVDIVPSQGEISVGESKFFLCQVAGDAKDKDISWFSPN GEKLTPNQQRIS VVWNDDSSSTLTIIYNANIDDAGIYKCVVTGEDGSESEATVNVKIF QKLMFKNAPTPQEFREGEDAVIVCD VVSSLPPTIIWKHKGRDVILKKDVRFIVLSNNY LQIRGIKKTDEGTYRCEGRILARGEINFKDIQVIVNV PPTIQARQNIVNATANLGQSVT LVCD AEGFPEPTMSWTKDGEQIEQEEDDEKYIFSDDSSQLTIKKVDKN DEAEYICIA ENKAGEQDATIHLKVFAKPKITYVENQTAMELEEQVTLTCEASGDIPIPSITWRTSTRN ISS EEKASWTRPEKQETLDGHMVVRSHARVSSLTLKSIQYTDAGEYICTASNTIGQD SQSMYLEVQYAPKLQG PVAVYTWEGNQVNITCEVFAYPSATISWFRDGLLPSSN YSNIKIYNTPSASYLEVTPDSENDFGNYNCT AVNRIGQESLEFILVQADTPSSPSIDQ VEPYSSTAQVQFDEPEATGGVPILKYKAEWRAVGEEVWHSKWY DAKEASMEGIVTI VGLKPETTYAVRLAALNGKGLGEISAASEFKTQPVQGEPSAPKLEGQMGEDGNSIK V NLIKQDDGGSPIRHYLVRYRALSSEWKPEIRLPSGSDHVMLKSLDWNAEYEVYVV AENQQGKSKAAHFVF RTSAQPTAIPANGSPTSGLSTGAIVGILIVIFVLLL VVDITCY FLNKCGLFMCI AVNLCGKAGPGAKGK DMEEGKAAFSKDESKEPIVEVRTEEERTPN HDGGKHTEPNETTPLTEPEKGPVEAKPECQETETKPAPAE VKTVPNDATQTKENENKATRTRPLEQKLISEEDLAANDILDYKDDDDKV
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), Prion diseases
Full Length	Full L.

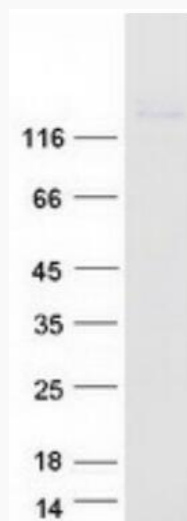
GENE INFORMATION

Gene Name	NCAM1 neural cell adhesion molecule 1 [Homo sapiens (human)]
Official Symbol	NCAM1
Synonyms	CD56; NCAM; MSK39
Gene ID	4684
mRNA Refseq	NM_181351.5
Protein Refseq	NP_851996.2
MIM	116930
UniProt ID	P13591

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Coomassie blue staining of purified NCAM1 protein.

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