

# 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**

MLQTKDLIWTLFFLGTAVSLQVDIVPSQGEISVGESKFFLCQVAGDAKDKDISWFSPN  
 GEKLTPNQQRIS VVWNDDSSSTLIYANIDDAIYKCVVTGEDGSESEATVNVKIF  
 QKLMFKNAPTQEFREGEDAVIVCD VVSSLPPTIIWKHKGRDVILKDKDVRFIVLSNNY  
 LQIRGIKKTDEGTYRCEGRILARGEINFKDIQVIVNV PPTIQRQIVNATANLGQSVT  
 LVCDAEGFPEPTMSWTKDGEQIEQEEDDEKYIFSDDSSQLTIKKVDKN DEAEYICIA  
 ENKAGEQDATIHLKVFAPKITYVENQTAMELEEQVTLTCEASGDIPIPSITWRTSTRN  
 ISS EEKASWTRPEKQETLDGHMVVRSHARVSSLTLKSIQYTDAGEYICTASNTIGQD  
 SQSMYLEVQYAPKLQG PVAVYTWEGNQVNITCEVFAYPSATISWFRDGGQLLPSSN  
 YSNIKIYNTPSASYLEVTPDSEDFGNYNCT AVNRIGQESLEFILVQADTPSSPSIDQ  
 VEPYSSTAQVQFDEPEATGGVPILKYKAEWRAVGEVWHKWKY DAKEASMEGIVTI  
 VGLKPETTYAVRLAALNGKGLGEISAASEFKTQPVQGEPSAPKLEGQMGEDGNSIK  
 V NLIKQDDGGSPIRHYLVRYRALSSEWKPEIRLPSGSDHVMLKSLDWNAEYEVYVV  
 AENQQGKSKAAHFVF RTSAQPTAIPANGSPTSGLSTGAIVGILIVIFVLLL VVVDITCY  
 FLNKCGLFMCIAVNLCGKAGPGAKGK DMEEGKAAFSKDESKEPIVEVRTEEERTPN  
 HDGGKHTEPNETPLTEPEKGPVEAKPECQETETKPAPAE  
 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.

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<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways</b>	Cell adhesion molecules (CAMs), Prion diseases
<b>Full Length</b>	Full L.

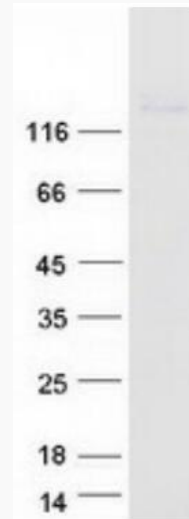
## GENE INFORMATION

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

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Coomassie blue staining of purified NCAM1 protein.

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