

Recombinant Human NCAM1 Protein, His-tagged

Cat. No. NCAM1-105H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NCAM1 Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>NCAM (neural cell adhesion molecule, CD56) is an adhesion glycoprotein with five extracellular immunoglobulin-like domains followed by two fibronectin type III repeats. Structural diversity is introduced by alternative splicing resulting in different cytoplasmic domains. NCAM mediates neuronal attachment, neurite extension and cell-cell interactions through homo and heterophilic interactions. PSA (polysialic acid) post-translationally modifies NCAM and increases the metastatic potential of small cell lung carcinoma, Wilms+ tumor, neuroblastoma and rhabdomyosarcoma. CD56 is commonly used along with CD3 and CD16 to identify human NK cells (Mouse NK cells do not express CD56). Human natural killer cells are CD3-CD56+. The large subset with high CD16 expression are mature cytotoxic natural killer cells, while those with low CD16 expression are immature precursors and cytokine producers.</p>
Molecular Mass	~93 kDa
AA Sequence	<p>LQVDIVPSQGEISVGESKFFLCQVAGDAKDKDISWFSPNGEKLTPNQQRISVVWND DSSSTLTIYNANIDDAGIYKCVVTGEDGSESEATVNVKIFQKLMFKNAPTPQEFREGE DAVIVCDVVSSLPPTIIWKHKGRDVLKDKDVRFIVLSNNYLQIRGIKKTDEGTYRCEGRI LARGEINFKDIQVIVNVPPTIQARQNIIVNATANLGQSVTLVCDAEGFPEPTMSWTKDG</p>

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EQIEQEEDDEKYIFSDDSSQLTIKKVDKNDEAEYICIAENKAGEQDATIHLKVFAPKIT
 YVENQTAMELEEQVTLTCEASGDPIPSITWRTSTRNISSEEKASWTRPEKQETLDGH
 MVVRSHARVSSLTLKSIQYTDAGEYICTASNTIGQDSQSMYLEVQYAPKLQGPVAVY
 TWEGNQVNITCEVFAYPSATISWFRDQLLPSSNYSNIKIYNTSPASYLEVTPDSEND
 FGNYNCTAVNRIGQESLEFILVQADTPSSPSIDQVEPYSSTAQVQFDEPEATGGVPIL
 KYKAEWRAVGEEVWHSKWYDAKEASMEGIVTIVGLKPETTYAVRLAALNGKGLGEI
 SAASEFKTQPVQGEPSAPKLEGQMGEDGNSIKVNLIKQDDGGSPIRHVLRVYRALS
 SEWKPEIRLPSGSDHVMLKSLDWNAEYEVYVAENQQGKSKAAHFVFRRTSAQPTAI
 PANGSPTSG

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

NCAM1 neural cell adhesion molecule 1 [Homo sapiens (human)]

Official Symbol

NCAM1

Synonyms

NCAM1; neural cell adhesion molecule 1; CD56; NCAM; neural cell adhesion molecule, NCAM; antigen recognized by monoclonal 5.1H11; MSK39;

Gene ID

4684

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mRNA Refseq [NM_000615](#)

Protein Refseq [NP_000606](#)

MIM [116930](#)

UniProt ID [P13591](#)

SDS-PAGE



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