

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	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.
Molecular Mass	~93 kDa
AA Sequence	LQVDIVPSQGEISVGESKFFLCQVAGDAKDKDISWFSPNGEKLTPNQQRISVWVND DSSSTLTIYNANIDDAgiYKCVVTGEDGSESEATVNVKIFQKLMFKNAPTPQEFREGE DAVIVCDVSSLPPTIIWKHKGRDVLKKDVRFIVLSNNYLQIRGIKKTDEGTYRCEGRI LARGEINFKDIQVIVNVPPTIQARQNIIVNATANLGQSVTLVCDAEGFPEPTMSWTKDG

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EQIEQEEDDEKYIFSDDSSQLTIKKVDKNDEAEYICIAENKAGEQDATIHLKVFAKPKIT
YVENQTAMELEEQVTLTCEASGDPIPSITWRTSTRNISSEEEKASWTRPEKQETLDGH
MVVRSHARVSSLTLKSIQYTDAGEYICTASNTIGQDSQSMYLEVQYAPKLQGPVAVY
TWEGNQVNITCEVFAYPSATISWFRDGQLLPSSNYSNIKIYNTPSASYLEVTPDSEND
FGNYNCTAVNRIGQESLEFILVQADTPSSPSIDQVEPYSSAQVQFDEPEATGGVPIL
KYKAEWRAVGEEVWHKWDYDAKEASMEGIVTIVGLKPETTYAVRLAALNGKGLGEI
SAASEFKTQPVGGEPSAPKLEGQMGEDGNSIKVNLKQDDGGSPIRHYLVRYRALS
SEWKPEIRLPSGSDHVMLKSLDWNAEYEVYVAENQQGKSKAAHFVFRTSAQPTAI
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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