

Recombinant Human NCAM1 Protein (20-718aa), C-6×His and Avi-tagged

Cat. No. NCAM1-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human NCAM1 (Neural Cell Adhesion Molecule 1, also known as CD56) encompassing amino acids 20-718. This construct contains a C-terminal Avi-Tag™ followed by a C-terminal His-tag (6xHis). The recombinant protein was affinity purified. HiP™ indicates a high purity protein (≥90% pure) and less than 10% aggregation as measured by gel filtration.

Species Human

Source HEK293

ProteinLength 20-718

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

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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 NK cells in peripheral blood. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms.

Form	Aqueous buffer solution
Molecular Mass	81 kDa + glycans
Purity	≥90%
Usage	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Storage	At least 6 months at -80 centigrade.
Storage Buffer	8 mM phosphate pH 7.4, 110 mM NaCl, 2.2 mM KCl, 20% glycerol
Shipping	At -80 centigrade
Warning	Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/mL in PBS + glycerol and stored at -80 centigrade.

GENE INFORMATION

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

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Official Symbol	NCAM1
Synonyms	NCAM1; neural cell adhesion molecule 1; CD56; NCAM; MSK39; neural cell adhesion molecule 1; antigen recognized by monoclonal antibody 5.1H11; neural cell adhesion molecule, NCAM; EC 2.7.11.1
Gene ID	4684
mRNA Refseq	NM_000615
Protein Refseq	NP_000606
MIM	116930
UniProt ID	P13591
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