# Recombinant Human NCAM1 Protein, His-tagged

**Cat. No.** NCAM1-690H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human NCAM1 Protein (Thr340-Val608) with His tag was expressed in 293F. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | Thr340-Val608 |
| **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 |

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| | 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** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 31.4 kDa; Accurate Molecular Mass: 48-55 kDa |
| **Purity** | > 90% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | NCAM1 neural cell adhesion molecule 1 [ Homo sapiens (human) ] |
| **Official Symbol** | NCAM1 |

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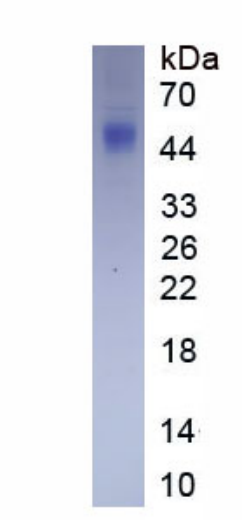
| **Synonyms** | NCAM1; neural cell adhesion molecule 1; CD56; NCAM; MSK39; neural cell adhesion molecule 1; antigen recognized by monoclonal antibody 5.1H11; neural cell adhesion molecule, NCAM; EC 2.7.11.1 |
| **Gene ID** | 4684 |
| **mRNA Refseq** | NM_000615 |
| **Protein Refseq** | NP_000606 |
|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

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