

## CD56 recombinant protein

Human CD56 Protein, His Tag

CATALOG #  
**AAA47347**

HOST  
**HEK293 cells**

### PRODUCT SYNONYMS

CD56; Human CD56 Protein; His Tag; NCAM1; MSK39; NCAM; CD56 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 cells                                                                                                 |
| Purity/Purification     | >90%. Affinity purification                                                                                  |
| Form/Format             | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. |
| Sequence                | CD56(Leu22 0-Gly718)+ 6×Histag                                                                               |
| Origin                  | Human                                                                                                        |
| Reconstitution          | Reconstitute with deionized water                                                                            |
| Tag                     | C-6×His tag                                                                                                  |
| Preparation and Storage | Store at -80 degree C for 12 months (Avoid repeated freezing and thawing)                                    |

### IMAGES

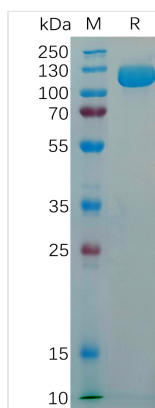

**SDS-PAGE**

Figure 1. Human CD56 Protein, His Tag on SDS-PAGE under reducing condition.

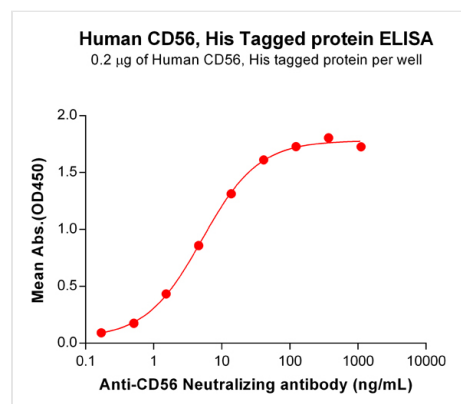

**ELISA**

Figure 1. Human CD56 Protein, His Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CD56 recombinant protein | 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 NK cells in peripheral blood. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms. |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 205830665                                                                                                              |
| NCBI GeneID                      | 4684                                                                                                                   |
| UniProt Accession #              | P13591; P13592; P13593; Q05C58; Q15829; Q16180; Q16209; Q59FL7; Q86X47; Q96CJ3; A8K8T8                                 |
| Molecular Weight                 | 858                                                                                                                    |
| NCBI Official Full Name          | Neural cell adhesion molecule 1                                                                                        |
| NCBI Official Synonym Full Names | neural cell adhesion molecule 1                                                                                        |
| NCBI Official Symbol             | NCAM1                                                                                                                  |
| NCBI Official Synonym Symbols    | CD56; NCAM; MSK39                                                                                                      |
| NCBI Protein Information         | neural cell adhesion molecule 1; neural cell adhesion molecule, NCAM; antigen recognized by monoclonal antibody 5.1H11 |
| UniProt Protein Name             | Neural cell adhesion molecule 1                                                                                        |
| UniProt Gene Name                | NCAM1                                                                                                                  |
| UniProt Synonym Gene Names       | NCAM; N-CAM-1; NCAM-1                                                                                                  |
| UniProt Entry Name               | NCAM1_HUMAN                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/ncam1-recombinant-protein-hek293/47347>