

Product datasheet for TP724147

OriGene Technologies, Inc.

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Human CD56 Protein, His Tag

Product data:

Product Type: Recombinant Proteins

Description: Human CD56 Protein, His Tag

Expression Host: HEK293
Tag: C-6×His

Predicted MW: The protein has a predicted molecular mass of 77.0 kDa after removal of the signal

peptide. The apparent molecular mass of CD56-His is approximately 100-130 kDa due to

glycosylation.

Purity: The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie

blue staining.

Reconstitution Method: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants

before lyophilization.

Storage: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended

for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient temperature.

Stability: 12 months from date of despatch

Synonyms: NCAM1, CD56, MSK39, NCAM



Summary:

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, Ncadherin 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.