

Datasheet for ABIN7092681
CD56 Protein (AA 220-718) (His tag)



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2 Images

Overview

Quantity:	100 µg
Target:	CD56 (NCAM1)
Protein Characteristics:	AA 220-718
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD56 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD56 Protein with C-terminal 6xHis tag
Specificity:	CD56 (Leu220-Gly718) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 90 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	CD56 (NCAM1)
Alternative Name:	CD56 (NCAM1 Products)
Background:	This gene encodes a cell adhesion protein which is a member of the immunoglobulin

Target Details

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.

Molecular Weight:	predicted molecular mass of 77.0 kDa after removal of the signal peptide. The apparent molecular mass of CD56-His is 100-130 kDa due to glycosylation.
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Gene ID:	4684
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UniProt:	P13591
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
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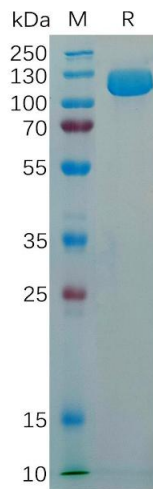
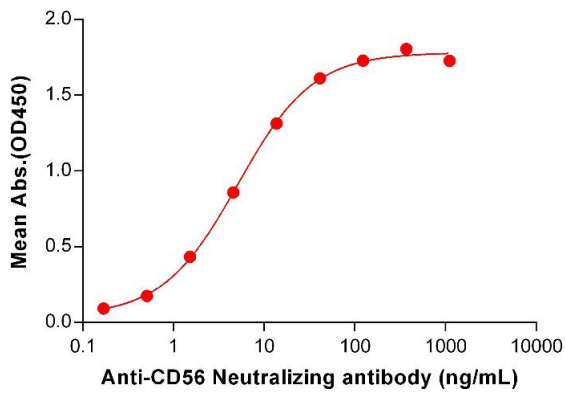
Storage:	-20 °C, -80 °C
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Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
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Expiry Date:	12 months
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Human CD56, His Tagged protein ELISA

0.2 µg of Human CD56, His tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human CD56 Protein, His Tag (ABIN7092681, ABIN7272212 and ABIN7272213) can bind Anti-CD56 Neutralizing antibody ABIN7478001 and ABIN7490940 in a linear range of 0.51-41.15 ng/mL.

SDS-PAGE

Image 2. Human CD56 Protein, His Tag on SDS-PAGE under reducing condition.