

Natural Cytotoxicity Receptor NKp46 Recombinant Protein | NKp46 recombinant protein

Recombinant Human Natural Cytotoxicity Receptor NKp46

CATALOG # AAA38489	HOST E Coli
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PRODUCT SYNONYMS

Natural Cytotoxicity Receptor NKp46; Recombinant Human Natural Cytotoxicity Receptor NKp46; NKp46 Human; Natural Cytotoxicity Receptor NKp46 Human Recombinant; Natural cytotoxicity triggering receptor 1; Natural killer cell p46-related protein; hNKp46; NK-p46; NKp46; NK cell-activating receptor; Lymphocyte antigen 94 homolog; CD335 antigen; NCR1; LY94; NCRNKp46; CD335; NKp46 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The protein contains phosphate buffered saline (pH7.4) & 1mM EDTA. Sterile filtered colorless solution.
Sequence	MQQQTLPKPF IWAEPHF MVP KEKQVTICQ GNYGAVEYQL HFEGSLFAVD RPKPPERINK VKFYIPDMNS RMAGQYSCIY RVGELWSEPS NLLDLVVTEM YDTPTLVHP GPEVISGEEV TFYCRLDTAT SMFLLKEGR SSHVQRGYGK VQAEFPLGPV TTAHRGTYRX FGSYNNHAW SFPSEPVKLLV TGDIENTSLA PEDPTFSADT WGTYLLTTET GLQKDHAWD HTAQN
Sequence Length	303
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for NKp46 recombinant protein	Description: NKp46 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 235 amino acids and having a molecular mass of 26.6 kDa. Introduction: A natural cytotoxicity receptor (NCR) NKp46 has been shown to represent a novel NK cell-specific molecule involved in human NK cell activation. The natural cytotoxicity receptors (NCRs) are a recently characterized family of Ig-like activation receptors that appear to be major triggering receptors in tumor cell recognition. The three known NCRs include NKp46 and NKp30, which are expressed on circulating NK cells, and NKp44, which is expressed only on activating NK cells. NKp46 has been implicated in NK cell-mediated lysis of several autologous tumor cells, pathogen-infected cell lines and mononuclear phagocytes infected with an intracellular bacterium. The Lysis of tumor cells by NK-cells involves recognition by NKp46 of heparan sulfate moieties of membrane heparan sulfate proteoglycans. Furthermore, NKp46 is a surface receptor involved in NK-cell cell death by apoptosis. NKp46 has two extracellular Ig-like domains followed by a ~40 residue stalk region, a type I transmembrane domain, and a short cytoplasmic tail. The extracellular Ig-like domain of NKp46 (22-255aa) is purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer. In addition, engagement of the antigen with the monoclonal antibody stimulates intracellular calcium levels and the synthesis of cytokines. CD59 is an NKp46 coreceptor (by physical association) together they activate cytotoxicity of human NK-cells, their engagement results in tyrosine phosphorylation of CD3-zeta chains associated with NKp46. Reduced cell surface expression of NKp46 and other NK-cell receptors is linked to the impaired NK-cell cytolytic function in viremic HIV-1 infection.
Product Categories/Family for NKp46 recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	523498722
NCBI GeneID	9437
NCBI Accession #	NP_001138929.2
NCBI GenBank Nucleotide #	NM_001145457.2
UniProt Accession #	O76036; O76016; O76017; O76018; B0V3L2; B0V3L3; B0V3L4; B0V3L5; B8JL03
NCBI Official Full Name	natural cytotoxicity triggering receptor 1 isoform b
NCBI Official Synonym Full Names	natural cytotoxicity triggering receptor 1
NCBI Official Symbol	NCR1
NCBI Official Synonym Symbols	LY94; CD335; NKP46; NK-p46
NCBI Protein Information	natural cytotoxicity triggering receptor 1; NK cell-activating receptor; lymphocyte antigen 94 homolog (activating NK-receptor; NK-p46); natural killer cell p46-related protein
UniProt Protein Name	Natural cytotoxicity triggering receptor 1
UniProt Gene Name	NCR1
UniProt Synonym Gene Names	LY94; NK-p46; NKP46; hNKP46
UniProt Entry Name	NCTR1_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
Online datasheet: <https://stage.aaabiotech.com/ncr1-recombinant-protein-e-coli/38489>