

Recombinant Human Natural Cytotoxicity Triggering Receptor 1

Cat. No. NCR1-166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRNKp46 produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The protein contains 235(22-255) amino acids and has a molecular mass of 26.6 kDa. The protein is purified by FPLC gel-filtration chromatography.
Species	Human
Source	E.coli
Protein Length	22-255 a.a.
Description	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 and pathogen-infected cell lines. NKp46 has two extracellular Ig-like domains followed by a ~40 residue stalk region, a type I transmembrane domain, and a short cytoplasmic tail.
Amino Acid Sequence	MQQQTLPKPF IWAEPHFMVP KEKQVTICQ GNYGAVEYQL HFEGSLFAVD RPKPPERINKVKFYIPDMNS RMAGQYSCIY RVGELWSEPS NLLDLVSTEM

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YDTPTLSVHP GPEVISGEEV TFYCRLDTAT SMFLLLKEGR SSHVQRGY GK
VQAEFPLGPV TTAHRGTYRX FGSYNNHAWSFPSEPVKLLV TGDIENTSLA
PEDPTFSADT WGTYLLTTET GLQKDHALWD HTAQN

Physical Appearance Sterile filtered colorless solution.

Formulation The protein (1mg/ml) contains phosphate buffered saline (pH7.4) & 1mM EDTA.

Purity Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE Coomassie.

Stability Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

GENE INFORMATION

Gene Name [NCR1 natural cytotoxicity triggering receptor 1 \[Homo sapiens \]](#)

Synonyms NCR1; natural cytotoxicity triggering receptor 1; LY94; CD335; CD335 antigen; NKP46; NK-p46; FLJ99094; natural killer cell p46-related protein; lymphocyte antigen 94 homolog (activating NK-receptor; NK-p46); lymphocyte antigen 94 (mouse) homolog (activating NK-receptor; NK-p46); Natural killer cell p46-related protein; hNkp46; NK-p46; NKp46; NK cell-activating receptor; Lymphocyte antigen 94 homolog

Gene ID [9437](#)

mRNA Refseq [NM_001145457](#)

Protein Refseq [NP_001138929](#)

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MIM	604530
UniProt ID	O76036
Chromosome Location	19
Pathway	Natural killer cell mediated cytotoxicity
Function	protein binding; receptor activity; receptor signaling protein activity
PDB rendering based on 1oll.	