

## NKp46 Human

**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.

**Synonyms:** 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.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MQQQTLPKPF IWAEPHFMVP KEKQVTICCC GNYGAVEYQL  
HFEGSLFAVD RPKPPERINKVKFYIPDMNS RMAGQYSCIY RVGELWSEPS NLLDLVSTEM  
YDPTLSVHP GPEVISGEEV TFYCRDLTAT SMFLLKKEGR SSHVQRGYGK VQAEFPLGPV  
TTAHRGTYRX FGSYNNHAWSPSEPVKLLV TGDIENTSLA PEDPTFSADT WGTYLLTTET  
GLQKDHALLWD HTAQ

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

**Formulation:**

The protein contains phosphate buffered saline (pH7.4) & 1mM EDTA.

**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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

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**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

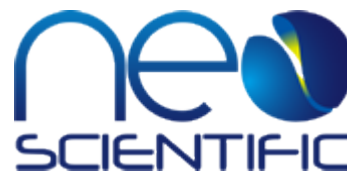
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cytotoxicity of human NK-cells, their engagement results in tyrosine phosphorylation of CD3-zeta chains associated with NKp46. Reduced cell surface expression of NKp46 and other NK-cell receptors is linked to the impaired NK-cell cytolytic function in viremic HIV-1 infection.



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