Recombinant human NKp46/NCR1 protein

Catalog Number: NCR3001

PRODUCT INFORMATION

Expression system
E.coli

Domain
22-255aa

UniProt No.
O76036

NCBI Accession No.
NP_004820.1

Alternative Names
NKp46 Extracellular Ig-like domain, NK-p46, NK cell-activating receptor, NCR1, NCR, Natural killer cell p46-related protein, Natural cytotoxicity triggering receptor 1 isoform a, Natural cytotoxicity triggering receptor 1, Lymphocyte antigen 94 homolog, Ly96, LY94, hNKp46, CD335 antigen

PRODUCT SPECIFICATION

Molecular Weight
26.6 kDa (235aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM EDTA

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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 NKcells, 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. The extracellular Ig-like domain of NKp46 (22-255aa) was overexpressed in E. coli, and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer.

Amino acid Sequence

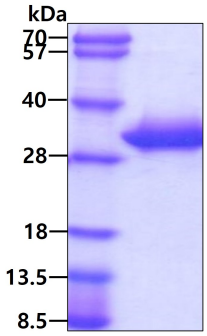
MQQQTLPKPF IWAEPHFMVP KEKQVTICCQ GNYGAVEYQL HFEGSLFAVD RPKPPERINK VKFYIPDMNS RMAGQYSCIY RVGELWSEPS NLLDLVVTEM YDTPTLSVHP GPEVISGEEV TFYCRLDTAT SMFLLLKEGR SSHVQRGYGK VQAEFPLGPV TTAHRGTYRC FGSYNNHAWS FPSEPVKLLV TGDIENTSLA PEDPTFPADT WGTYLLTTET GLQKDHALWD HTAQN

General References

Foster CE., et al. (2003) J.Biol.Chem. 278(46), 46081-6.
Vankayalapati R., et al. (2002) J. Immunol. 168(7), 3451-7

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.