Data Sheet (Cat.No.TMPK-00091)

TargetMol

NKp30/NCR3 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	1C7;LY117;CD337;NKp30;MALS;NCR3
Protein Construction:	Leu19-Thr138
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O14931-1
Molecular Weight:	20 kDa (predicted). Due to glycosylation, the protein migrates to 26-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	1. Immobilized Biotinylated Human NKp30, His Tag at 1μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-NKp30 Antibody, hFc Tag with the EC50 of 6.2ng/ml determined by ELISA (QC Test). 2. Human B7-H6, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human NKp30, His-Avi Tag with an affinity constant of 0.330 μM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NKp30, along with NKp44 and NKp46, constitute a group of receptors termed "Natural Cytotoxicity Receptors". These receptors play a major role in triggering NK-mediated killing of most tumor cells lines.NKp30 stimulates NK

cells cytotoxicity toward neighboring cells producing these ligands. It controls, for instance, NK cells cytotoxicity against tumor cells.

Reference

Strandmann E P V, et al. NKp30 and its ligands: Emerging players in tumor immune evasion from natural killer cells[J]. Annals of Translational Medicine, 2015.