

# Human NKp30/NCR3/CD337 Protein

Cat. No. NKP-HM230

## Description

<b>Source</b>	Recombinant Human NKp30/NCR3/CD337 Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Leu19-Thr138.
<b>Accession</b>	AAH52582
<b>Molecular Weight</b>	The protein has a predicted MW of 39.8 kDa. Due to glycosylation, the protein migrates to 53-60 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

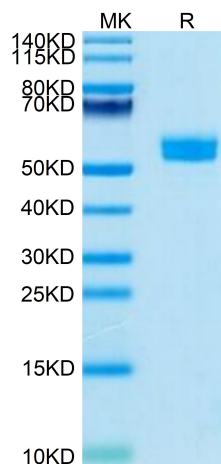
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

## 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. Engagement of NCR3 by BAG6 also promotes myeloid dendritic cells (DC) maturation, both through killing DCs that did not acquire a mature phenotype, and inducing the release by NK cells of TNFA and IFNG which promote DC maturation.

## Assay Data

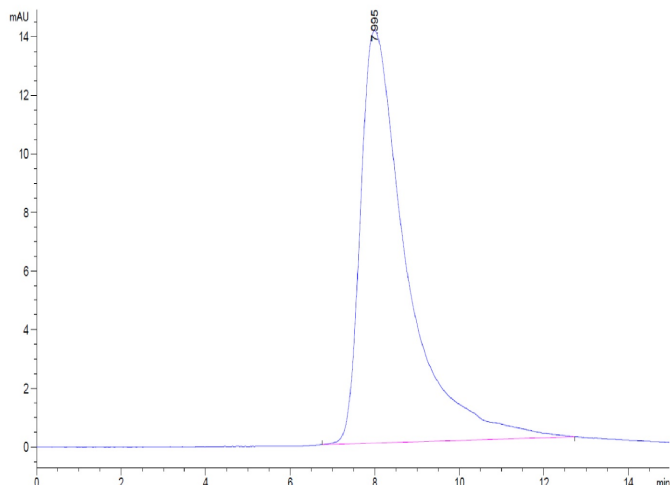
### Tris-Bis PAGE



Human NKp30 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

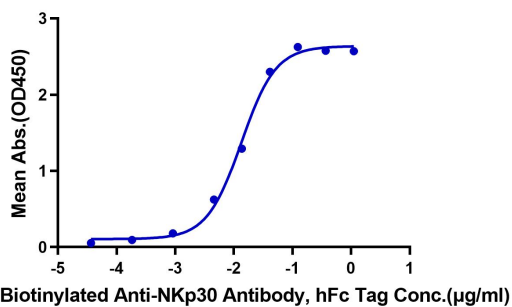
Assay Data



The purity of Human NKp30 is greater than 95% as determined by SEC-HPLC.

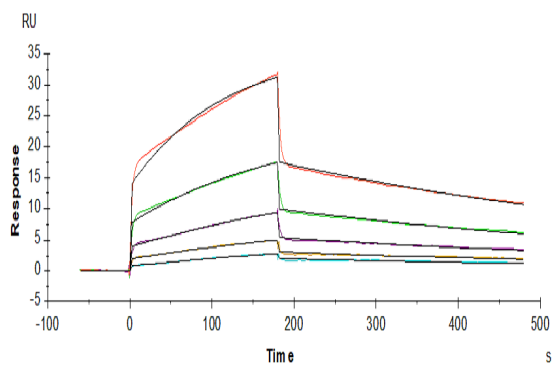
ELISA Data

**Human NKp30, hFc Tag ELISA**  
0.05µg Human NKp30, hFc Tag Per Well



Immobilized Human NKp30, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-NKp30 Antibody, hFc Tag with the EC50 of 13.4ng/ml determined by ELISA.

SPR Data



Human NKp30, hFc Tag captured on CM5 Chip via Protein A can bind Human B7-H6, His Tag with an affinity constant of 23.10 nM as determined in SPR assay (Biacore T200).