

Human NKG2A&CD94 Protein



Cat. No. NKC-HM394

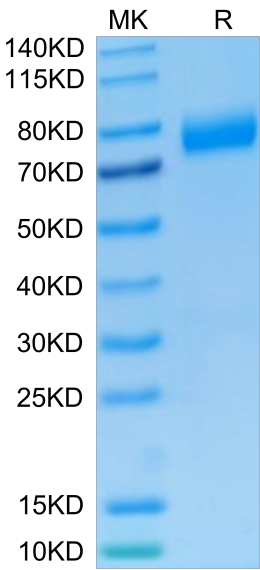
Description	
Source	Recombinant Human NKG2A&CD94 Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus. It contains Arg100-Leu233(NKG2A)&Ser34-Ile179(CD94).
Accession	P26715-1(NKG2A)&&Q13241-1(CD94)
Molecular Weight	The protein has a predicted MW of 56.9 kDa. Due to glycosylation, the protein migrates to 70-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
The ligand-receptor assignment between HLA-G and NKG2A/CD94 is dependent of the amino acid composition in the HLA-G heavy chain. Understanding the biophysical basis of receptor-mediated events that lead to NK cell inhibition would help to remove non-tumor reactive cells and support personalized mild autologous NK cell therapies.	

Assay Data

Bis-Tris PAGE



Human NKG2A&CD94 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

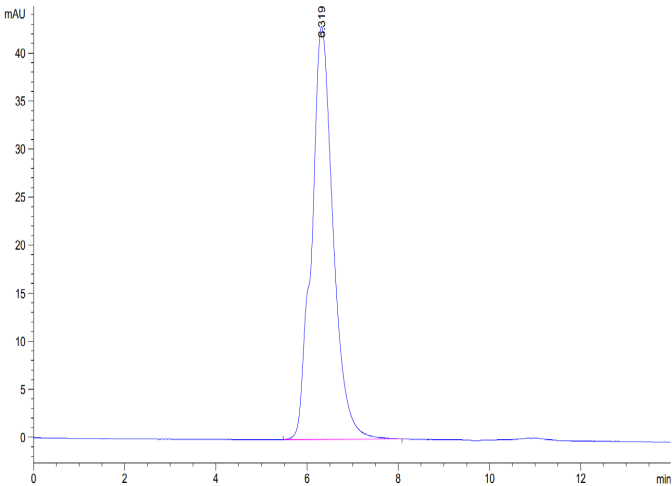
SEC-HPLC

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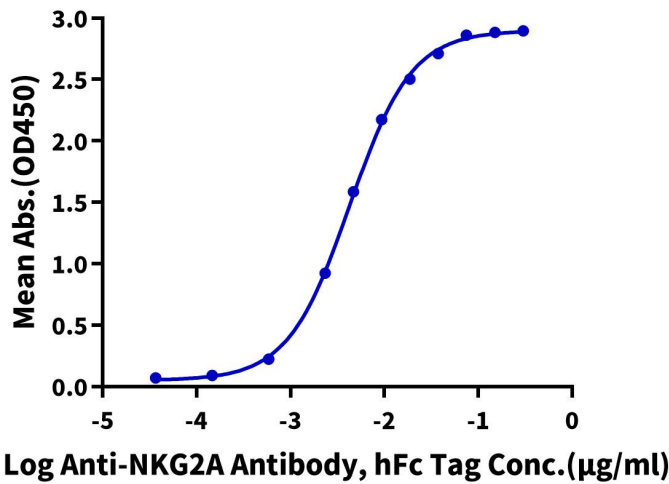
Assay Data



The purity of Human NKG2A&CD94 is greater than 95% as determined by SEC-HPLC.

ELISA Data

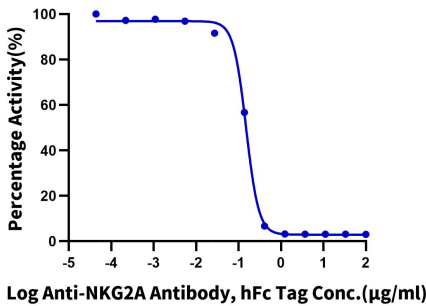
Human NKG2A&CD94, mFc Tag ELISA  
0.1µg Human NKG2A&CD94, mFc Tag Per Well



Immobilized Human NKG2A&CD94, mFc Tag at 1 µg/ml (100µl/well) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA (QC Test).

Blocking Data

Inhibition of Human NKG2A&CD94 and HLA-E Tetramer Binding  
0.2µg Human NKG2A&CD94, mFc Tag Per Well



Serial dilutions of Anti-NKG2A Antibody were added into Biotinylated Human HLA-E\*01:03 Complex Tetramer, His Tag : Human NKG2A&CD94, mFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 0.15µg/ml.

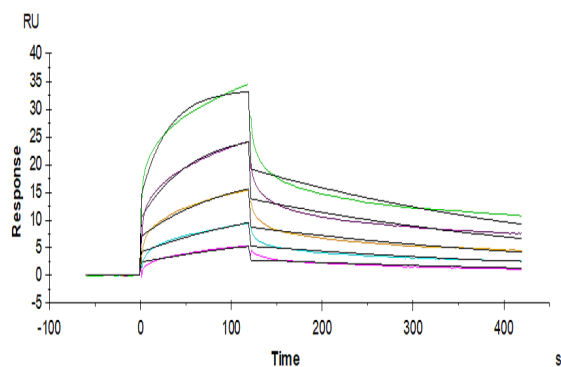
SPR Data

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KACATUS

### Assay Data



Human NKG2A&CD94, mFc Tag captured on CM5 Chip via Anti-mouse Antibody can bind Human HLA-E Complex Tetramer, His Tag with an affinity constant of 7.90 nM as determined in SPR assay (Biacore T200).