Human NKG2A&CD94 Protein

Cat. No. NKC-HM495



Cat. 110. 11110 11	
Description	
Source	Recombinant Human NKG2A&CD94 Protein is expressed from HEK293 with His tag and Avi tag at the N-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 17.9 kDa (CD94)&18.3 kDa (NKG2A). Due to glycosylation, the protein migrates to 33-48 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis 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	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended.

Dissolve the lyophilized protein in distilled water.

Reconstitution

Storage

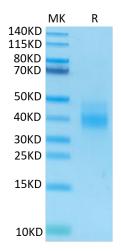
-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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

Tris-Bis PAGE

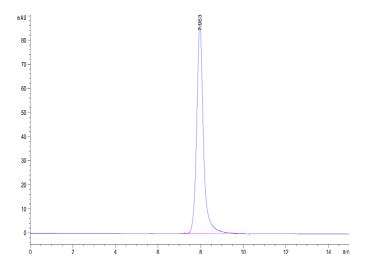


Human NKG2A&CD94 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

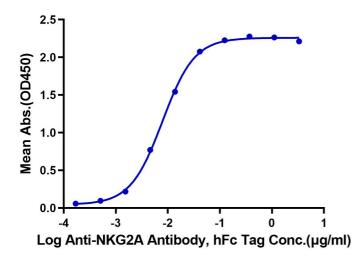
Assay Data



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

ELISA Data

Human NKG2A&CD94, His Tag ELISA 0.05μg Human NKG2A&CD94, His Tag Per Well

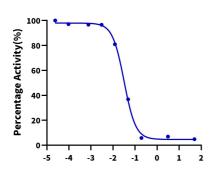


Immobilized Human NKG2A&CD94, His Tag at $0.5\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA.

Blocking Data

Inhibition of Human NKG2A&CD94 and HLA-E*01:03 Binding

0.2μg Human NKG2A&CD94, His Tag Per Well



Log Anti-NKG2A Antibody, hFc Tag Conc.(µg/ml)

Serial dilutions of Anti-NKG2A Antibody, hFc Tag were added into Human NKG2A&CD94, His Tag: Biotinylated Human HLA-E*01:03 Complex Tetramer, His Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 31.8ng/ml.