Datasheet for ABIN7275327

NKG2A & CD94 protein (mFc Tag)

6 Images

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Overview

Quantity:	100 µg
Target:	NKG2A & CD94
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	mFc Tag

Product Details

Sequence:	Arg100-Leu233(NKG2A) & Ser34-Ile179(CD94)
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human NKG2A&CD94, mFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 12.4ng/ml determined by ELISA. The affinity constant of 7.90 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	NKG2A & CD94
Alternative Name:	NKG2A&CD94
Background:	CD159a, NKG2A, NKG2-A, CD94, NKG2A&CD94,The ligand-receptor assignment between HLA-

Target Details

	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.
Molecular Weight:	56.9 kDa. Due to glycosylation, the protein migrates to 70-90 kDa based on Tris-Bis PAGE result.

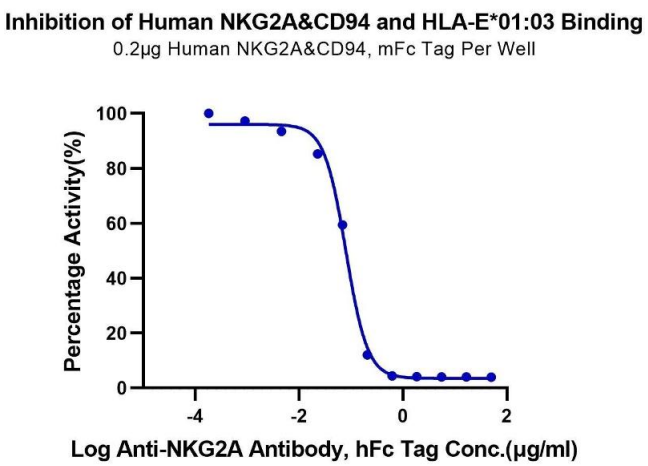
Application Details

Restrictions:	For Research Use only

Handling

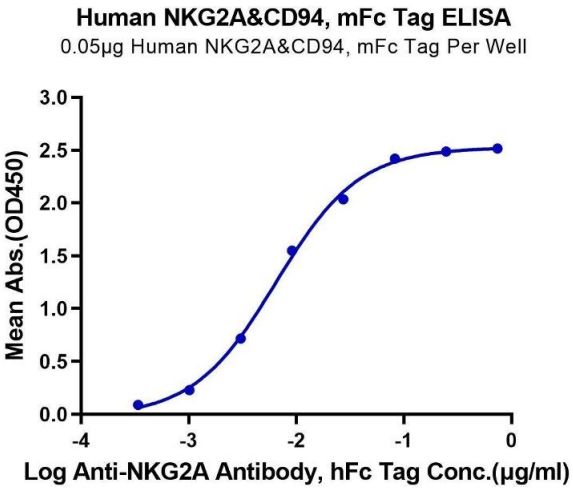
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Images



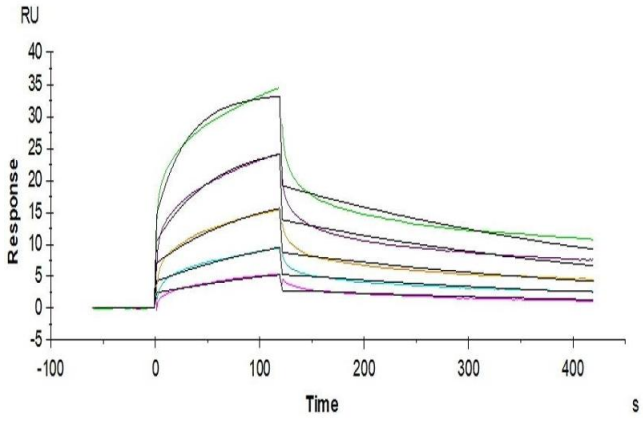
Binding Studies

Image 1. 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 reactioins. The half maximal inhibitiory concentration (IC50) is 80.0 ng/mL.



ELISA

Image 2. Immobilized Human NKG2A&CD94, mFc Tag at 0.5 μg/mL (100 μL/Well) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 6.5 ng/mL determined by ELISA.



Surface Plasmon Resonance

Image 3. 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).

Please check the product details page for more images. Overall 6 images are available for ABIN7275327.