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Datasheet for ABIN7275328

NKG2A & CD94 protein (His-Avi Tag)

5 Images

Overview

Quantity:	100 µg
Target:	NKG2A & CD94
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His-Avi 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, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-NKG2A Antibody, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA. 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-G and NKG2A/CD94 is dependent of the amino acid composition in the HLA-G heavy chain.

Target Details

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: 17.9 kDa (CD94)&18.3 kDa (NKG2A). Due to glycosylation, the protein migrates to 33-48 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.

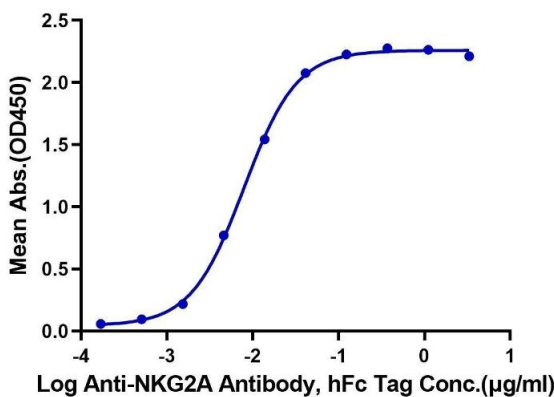
Storage: 4 °C,-80 °C

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

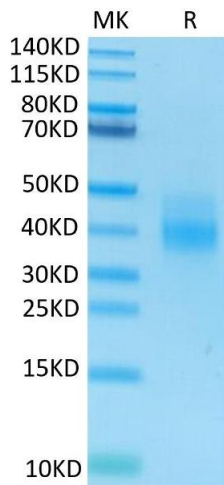
Images

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



ELISA

Image 1. Immobilized Human NKG2A&CD94, His 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 7.9 ng/mL determined by ELISA.

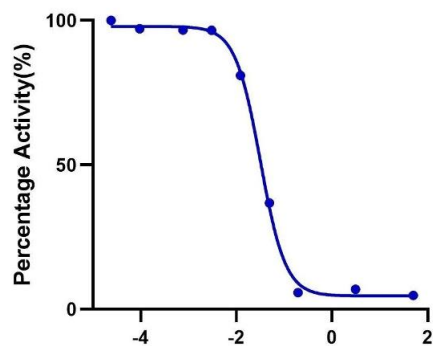


SDS-PAGE

Image 2. Human NKG2A&CD94 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

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)

Binding Studies

Image 3. 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 reactions. The half maximal inhibitory concentration (IC₅₀) is 31.8 ng/mL.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7275328.