

Recombinant Human NKG2A&KLRD1/CD159a&CD94 Prptein

Catalog No.: RP02451 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3821&3824	P26715&Q13241

Tags

C-mFc

Synonyms

CD159 antigen-like family member A; CD159a antigen; CD159a;NKG2A; NKG2-A; NKG2-A/B type II integral membrane protein; NKG2-A/B-activating NK receptor;CD94 antigen; CD94; CD94natural killer cells antigen CD94; Killer cell lectin-like receptor subfamily D member 1; killer cell lectin-like receptor subfamily D; member 1; KLRD1; KP43; NK cell receptor

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

Background

Basic Information

Description

Recombinant Human NKG2A&KLRD1/CD159a&CD94 Prptein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser34-Ile179)&(Arg100-Leu233) of Human NKG2A&KLRD1/CD159a&CD94 (Accession #) fused with mFc tag at the C-terminal.

Bio-Activity

Immobilized Human NKG2A&CD94,His Tag at 0.5 μg/mL (100 μL/Well). Dose response curve for Anti-NKG2A&CD94 Ab with the EC₅₀ of 0.2 μg/mL determined by ELISA.

Storage

Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

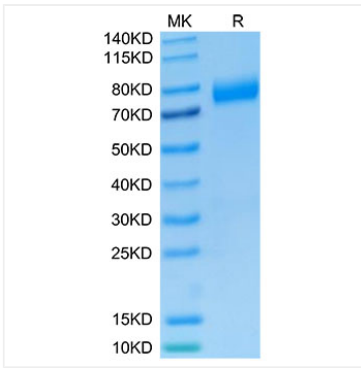
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

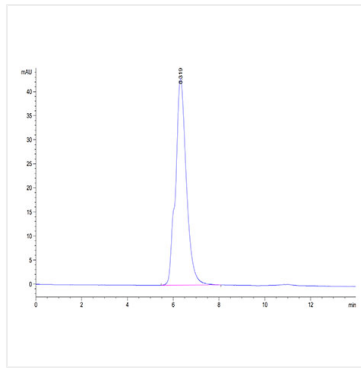


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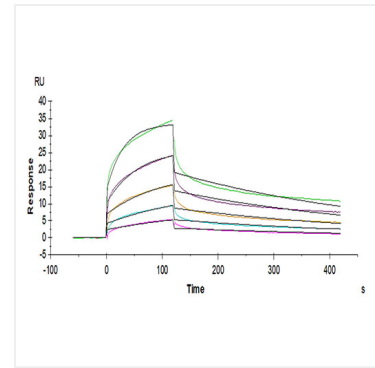
Validation Data



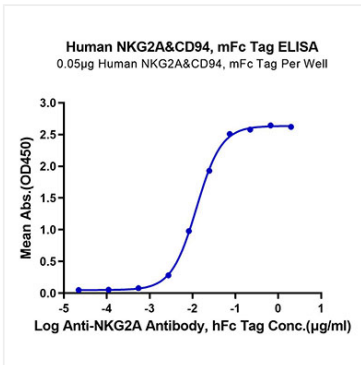
Human NKG2A&CD94 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



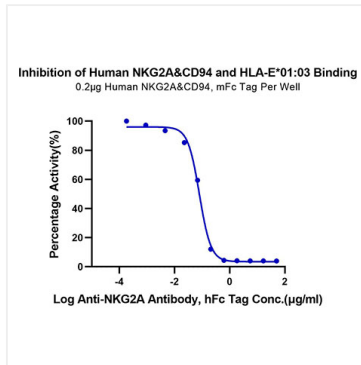
The purity of Human NKG2A&CD94 is greater than 95% as determined by SEC-HPLC.



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).



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 EC_{50} of 12.4ng/ml determined by ELISA.



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 80.0ng/ml.