

### Synonym

NKG2A & CD94

### Source

Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag(NC4-C82F7) is expressed from human 293 cells (HEK293). It contains AA Ala 113 - Leu 233 (NKG2A) & Asp 57 - Ile 179 (CD94) (Accession # [Q68VD2](#) (NKG2A) & [Q68VD4](#) (CD94)). Predicted N-terminus: Ala 113

### Molecular Characterization

This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 56.8 kDa. The protein migrates as 65-68 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

### Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

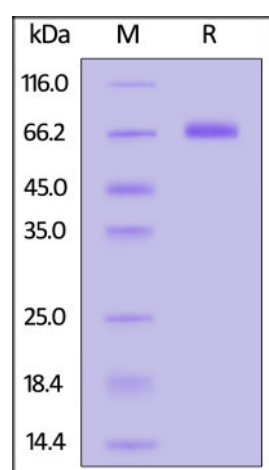
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

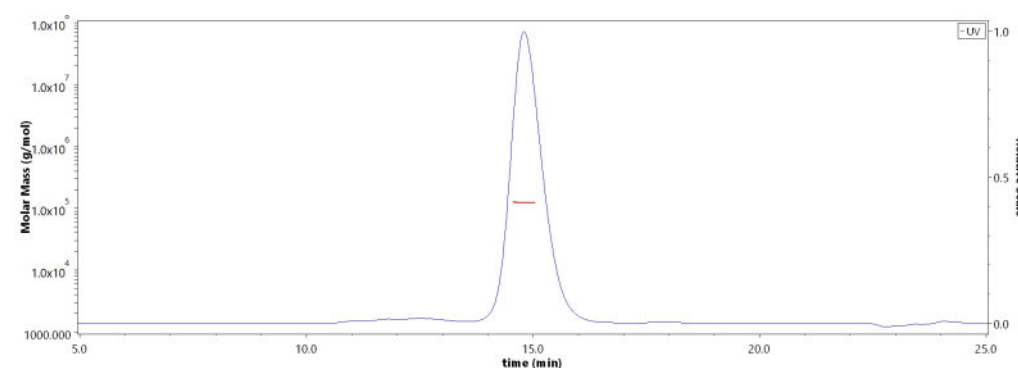
### SDS-PAGE



Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

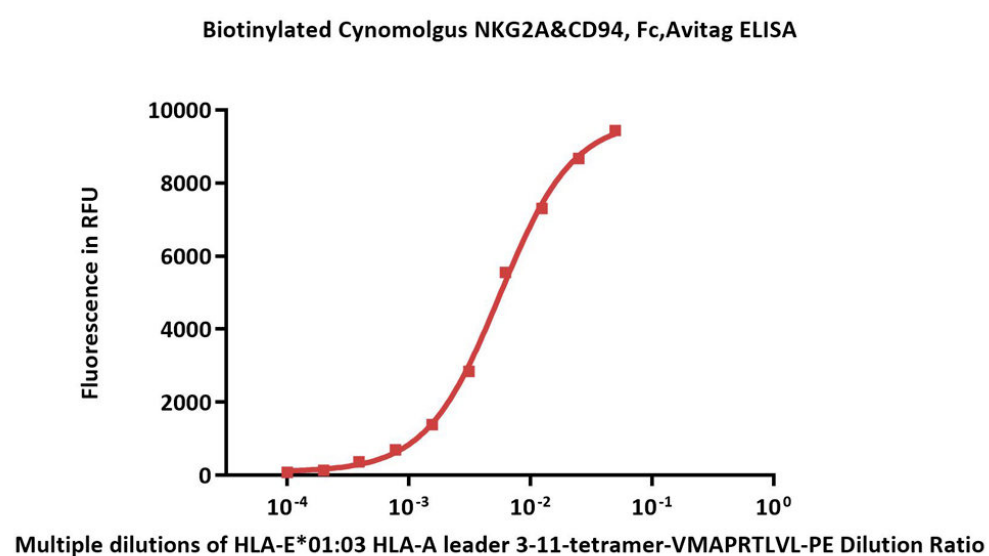
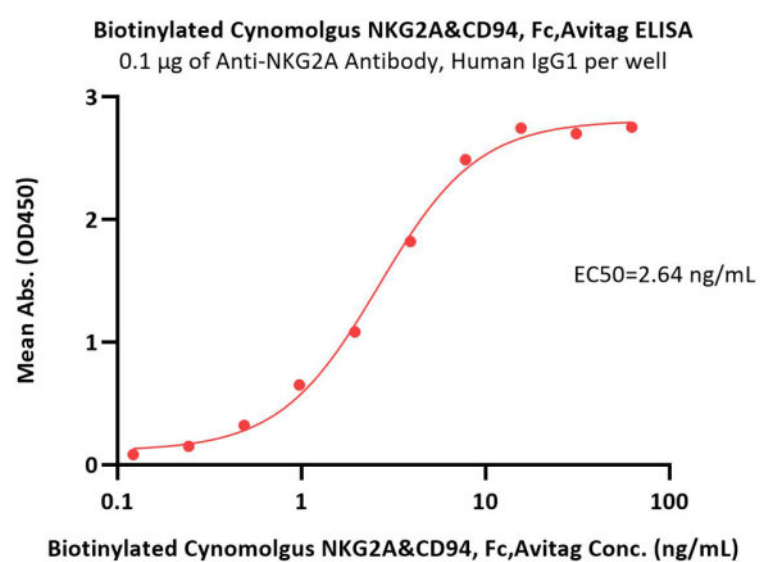
### Bioactivity-ELISA

### SEC-MALS



The purity of Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag (Cat. No. NC4-C82F7) is more than 90% and the molecular weight of this protein is around 115-135 kDa verified by SEC-MALS.

[Report](#)



Immobilized Anti-NKG2A Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag (Cat. No. NC4-C82F7) with a linear range of 0.1-16 ng/mL (QC tested).

Immobilized Biotinylated Cynomolgus NKG2A&CD94, Fc,Avitag (Cat. No. NC4-C82F7) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind various dilution ratio of HLA-E\*01:03 HLA-A leader3-11 Tetramer-VMAPRTLVL-PE (Routinely tested).

## Background

CD94 plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. KLRD1 (CD94) is an antigen preferentially expressed on NK cells and is classified as a type II membrane protein because it has an external C terminus. NKG2A/CD159a is a transmembrane protein belonging to the CD94/NKG2 family of C-type lectin-like receptors that inhibits innate immune system activation. CD94 pairs with the NKG2 molecule as a heterodimer. The CD94/NKG2 complex, on the surface of natural killer cells interacts with Human Leukocyte Antigen (HLA)-E on target cells.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.