

For Research Use Only

# Recombinant Human CD314/NKG2D protein (rFc Tag)



Catalog Number: Eg3295

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human NKG2D protein Phe78-Val216 (Accession# P26718-1) with a rabbit IgG Fc tag at the N-terminus.

**GeneID:**  
22914

**Accession:**  
P26718-1

**Predicted Molecular Mass:**  
43.3 kDa

**SDS-PAGE:**  
45-65 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD314, also known as NKG2D or Killer cell lectin-like receptor subfamily K member 1 (KLRK1), is a type II lectin-like transmembrane stimulatory receptor. In humans, it is expressed on NK cells, gamma delta T cells, and CD8+ alpha beta T cells. Various families of cell surface ligands have been identified, including the MICA/MICB and ULBP proteins. CD314 is involved in both innate and adaptive immunities, and the NKG2D/NKG2DL pathway involves multiple effector cell types for controlling tumor progression.

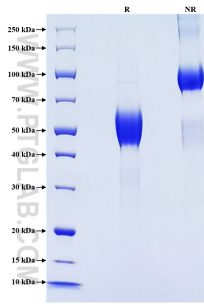
## References

1. T Yabe. et al.(1993) Immunogenetics.37(6):455-60.
2. S Bauer. et al.(1999) Science.285(5428):727-9.
3. Amanda M Jamieson. et al.(2002) Immunity.17(1):19-29
4. Huifang Liu. et al.(2019) Am J Cancer Res. 9(10):2064-2078.

## Synonyms

CD314, KLRK1, D12S2489E, Killer cell lectin-like receptor subfamily K member 1, KLR

## Selected Validation Data



Purity of Recombinant Human NKG2D was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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