Recombinant Human NKG-2D/KLRK1/CD314 Protein

Catalog No.: RP01879

Sequence Information

Species	Gene ID
human	22914
Swiss Prot	**Tags**
P26718	N-hFC

Synonyms
KLR;CD314;NKG2D;NKG2-D

Product Information

Source	Purification
HEK293 cells	≥ 85% as determined by SDS-PAGE.
Calculated MW	**Observed MW**
42.61 kDa	50-65 kDa

Endotoxin
< 0.1 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 vial 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

NKG2D is a transmembrane protein belonging to the CD94/NKG2 family of C-type lectin-like receptors, also known as KLRK1, CD314, D12S2489E, KLR and killer cell lectin like receptor K1. NKG2D itself forms a homodimer whose ectodomains serve for ligand binding. NKG2D is a major recognition receptor for the detection and elimination of transformed and infected cells as its ligands are induced during cellular stress, either as a result of infection or genomic stress such as in cancer. In NK cells, NKG2D serves as an activating receptor, which itself is able to trigger cytotoxicity. The function of NKG2D on CD8+ T cells is to send co-stimulatory signals to activate them.

Basic Information

Description
Recombinant Human NKG-2D/KLRK1/CD314 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (ILe73-Val216) of Human NKG-2D/KLRK1/CD314 (Accession #NP_001186734.1) fused with a hFc
at the N-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human MICA(Catalog: RP00172) at 2 μg/mL (100 μL/well) can bind Human NKG-2D /KLRK1/CD314 (Catalog: RP01879) with a linear range of 0.005-0.98 μg/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

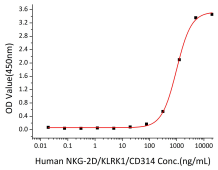
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

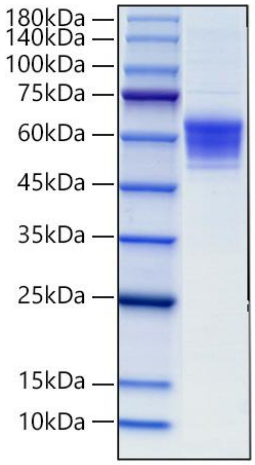
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Validation Data



Immobilized Human MICA(Catalog: RP00172) at 2 μg/mL (100 μL/well) can bind Human NKG-2D/KLRK1/CD314 (Catalog: RP01879) with a linear range of 0.005-0.98 μg/mL.



Recombinant Human NKG-2D/KLRK1/CD314 Protein was determined by SDS-PAGE under reducing (R)