

RP00267

Leader in Biomolecular Solutions for Life Science



Recombinant Human NKG2D ligand 2/ULBP2 Protein

Catalog No.: RP00267

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	80328	Q9BZM5

Tags

C-hFc&His

Synonyms

ULBP2;ALCAN-alpha;N2DL2;NKG2DL2;RAET1H

Product Information

Source

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

Purification

≥ 90 % as determined by SDS-PAGE.

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. Contact us for customized product form or formulation.

Reconstitution

Background

ULBP2 Protein, Human, Recombinant (His Tag) consists of 203 amino acids with a molecular weight of 23.2 kDa. The apparent molecular mass of recombinant human ULBP2 is about 33 kDa in SDS-PAGE under reducing conditions because of glycosylation. NKG2D ligand 2 is cell membrane protein belonging to the MHC class I family. The gene for ULBP-2 resides in a cluster of ten related genes, six of which encode potentially functional glycoproteins. ULBPs are known to bind to human NKG2D, an activating receptor expressed on NK cells, NKT cells, gamma δ T cells, and CD8+ alpha beta T cells, resulting in the production of cytokines and chemokines. Binding of ULBP2 ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. ULBP2 / N2DL-2 is not expressed in normal tissues, but in various types of cancer cell lines and the fetus and has been implicated in tumor surveillance.

Basic Information

Description

Recombinant Human NKG2D ligand 2/ULBP2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly26-Ser217) of human ULBP2 (Accession #NP_079493.1) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 Protein at 2 μg/mL (100 μL/well) can bind NKG2D-raFc with a linear range of 1.95-336.7 ng/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.

Operational Notes

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

Storage

Store at -20°C. Avoid repeated freeze/thaw cycles.

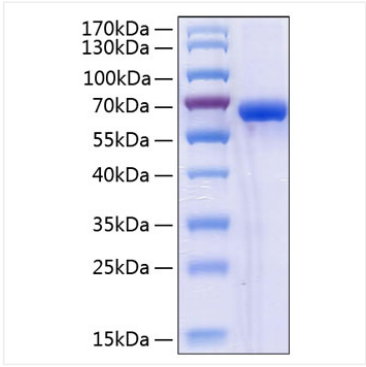
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Contact

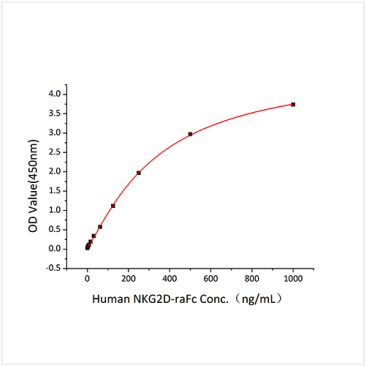


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Validation Data



Recombinant Human NKG2D ligand 2/ULBP2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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