Recombinant Human NKG2D ligand 2/ULBP2 Protein

Catalog No.: RP00267

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Sequence Information

Species
Human

Gene ID
80328

Swiss Prot
Q9BZM5

Tags
C-hFc&His

Synonyms
ULBP2,ALCAN-alpha,N2DL2, NKG2DL2,RAET1H

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
48.52 kDa

Observed MW
60-70 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.Contact us for customized product form or formulation.

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

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 theMHC 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 ULBPs 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.

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

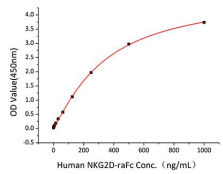
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

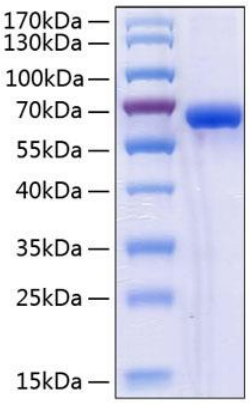
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Validation Data



Immobilized Human ULBP2 Protein at 2μg/mL (100 μL/well) can bind NKG2D-raFc with a linear range of 1.95-336.7ng/mL.



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