

RP00300

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Recombinant Human NKG2D ligand 2/ULBP2 Protein

Catalog No.: RP00300

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	80328	Q9BZM5

Tags

C-His

Synonyms

ULBP2;ALCAN-
alpha;N2DL2;NKG2DL2;RAET1H

Product Information

Source	Purification
HEK293 cells	> 97% 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

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.

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 ULBP 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 expression system. The target protein is expressed with sequence (Gly26-Ser217) of human ULBP-2 (Accession #NP_079493.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 at 2 μg/mL (100 μL/well) can bind NKG2D with a linear range of 0.122-22.17 ng/mL.

Storage

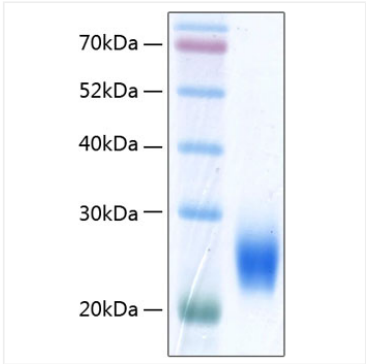
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

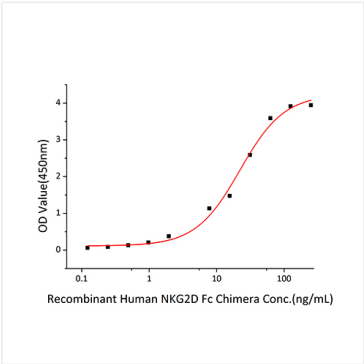


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Validation Data



Recombinant Human NKG2D ligand 2/ULBP2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 33 kDa.



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