

Recombinant Human NKG2D ligand 2/ULBP2 Protein

Catalog No.: RP00267

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	80328	Q9BZM5

Tags

C-hFc&His

Synonyms

ULBP2;ALCAN-alpha;N2DL2;NKG2DL2;RAET1H

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.

Product Information

Source	Purification
HEK293 cells	> 92% by SDS-PAGE.

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m 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 freeze-thaw cycles.

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, 6xHis tag at the C-terminus.

Bio-Activity

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

Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

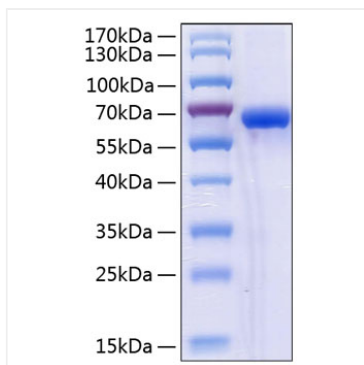
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

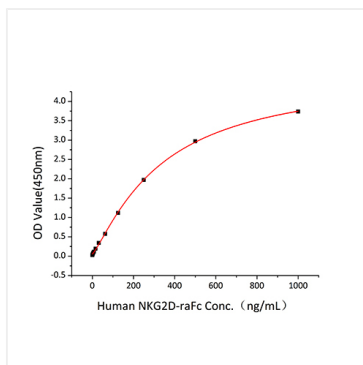
Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Validation Data



Recombinant Human NKG2D ligand 2/ULBP2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-65 kDa.



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