

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;ALCANalpha;N2DL2;NKG2DL2;RAET1H

Product Information

Source Purification HEK293 cells ≥ 90 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

48.52 kDa 60-70 kDa

Endotoxin

< 0.1 EU/ μ g 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.

Contact

<u>a</u>		400-999-6126
\bowtie		cn.market@abclonal.com.cn
•	T	www.abclonal.com.cn

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 Cterminus.

Bio-Activity

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

Storage

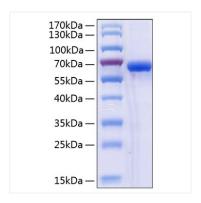
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

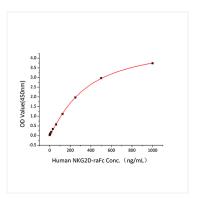
Avoid repeated freeze/thaw cycles.

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Validation Data



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



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 η mL.