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# Recombinant Human NKG2D ligand 2/ULBP2 Protein

**Catalog No.: RP00300** Recombinant

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---|---|---|
| Human | 80328 | Q9BZM5 |

**Tags**
C-His

**Synonyms**
ULBP2;ALCAN-alpha;N2DL2;NKG2DL2;RAET1H

## Product Information

| Source | Purification |
|---|---|
| HEK293 cells | > 97% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---|---|
| 22.57 kDa | 33 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.

## Contact


400-999-6126

cn.market@abclonal.com.cn

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.

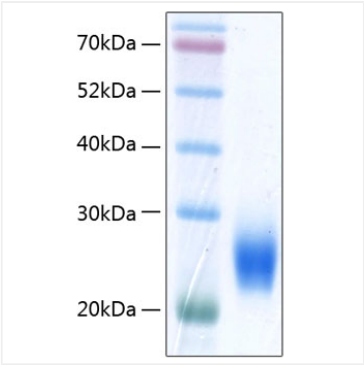
## Basic Information

**Description**
Recombinant Human NKG2D ligand 2/ULBP2 Protein is produced by HEK293 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.

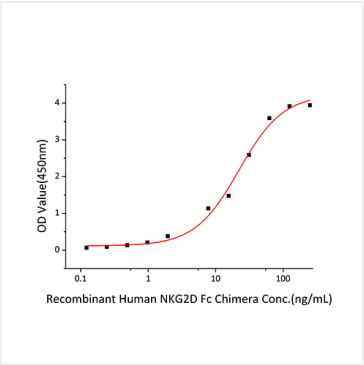
**Bio-Activity**
Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 at 2μg/mL (100 μL/well) can bind NKG2D with a linear range of 0.122-22.17ng/mL.

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

## 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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