

ULBP-2 recombinant protein

Recombinant Human ULBP-2 Protein

CATALOG # AAA281519	HOST HEK293 Cells
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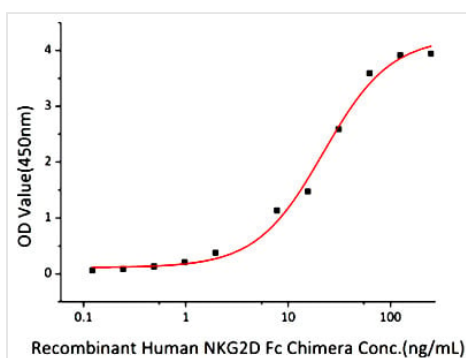
PRODUCT SYNONYMS

ULBP-2; Recombinant Human ULBP-2 Protein; ALCAN-alpha; N2DL2; NKG2DL2; RAET1H; UNQ463 / PRO791; ULBP-2 recombinant protein

PRODUCT SPECIFICATIONS

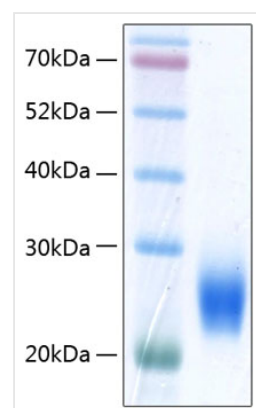
Host	HEK293 Cells
Purity/Purification	>97% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Sequence Length	246
Species	Human
Endotoxin	< 0.1 EU/ug of the protein by LAL method.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Tag	C-His
Bio-Activity	Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 at 2ug/mL (100 uL/well) can bind NKG2D with a linear range of 0.122-22.17ng/mL.
Preparation and 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.

IMAGES



Functional ELISA

Immobilized Human ULBP2 at 2ug/mL (100 uL/well) can bind NKG2D with a linear range of 0.122-22.17ng/mL.



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for ULBP-2 recombinant protein	Description: Active 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. 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 delta 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.
Product Categories/Family for ULBP-2 recombinant protein	Other Recombinant Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	37182452
NCBI GeneID	80328
UniProt Accession #	Q9BZM5
NCBI Official Full Name	ULBP2
NCBI Official Synonym Full Names	UL16 binding protein 2
NCBI Official Symbol	ULBP2
NCBI Official Synonym Symbols	N2DL2; RAET1H; RAET1L; NKG2DL2; ALCAN-alpha
NCBI Protein Information	UL16-binding protein 2
UniProt Protein Name	NKG2D ligand 2
UniProt Gene Name	ULBP2
UniProt Synonym Gene Names	N2DL2; RAET1H; N2DL-2; NKG2DL2
UniProt Entry Name	N2DL2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.