

Recombinant Human UL16 Binding Protein 1, His-tagged

Cat. No. ULBP1-7163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ULBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 25 kDa.
Species	Human
Source	E.coli
ProteinLength	26-216aa
Description	ULBP1 is ligand for the NKG2D receptor, together with at least ULBP2 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. In CMV infected cells, ULBP1 interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP1 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT.
Molecular Mass	25 kDa (216aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMGWVDT HCLCYDFIIT PKSRPEPQWC EVQGLVDERP FLHYDCVNHK AKAFASLGKK VNVTKTWEEQ TETLRDVVDF

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LKGQLLDIQV ENLIPIEPLT LQARMSCEHE AHGHGRGSWQ FLFNGQKFLL
FDSNNRKWTA LHPGAKKMTE KWEKNRDVTM FFQKISLGDC KMWLEEFMY
WEQMLDPTKP PSLAPG

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ULBP1 UL16 binding protein 1 \[Homo sapiens \]](#)

Official Symbol ULBP1

Synonyms ULBP1; UL16 binding protein 1; NKG2D ligand 1; RAET1I; N2DL-1; NKG2DL1; alcan-beta; UL16-binding protein 1; retinoic acid early transcript 1I;

Gene ID [80329](#)

mRNA Refseq [NM_025218](#)

Protein Refseq [NP_079494](#)

MIM [605697](#)

UniProt ID [Q9BZM6](#)

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Chromosome Location	6q25
Pathway	Adaptive Immune System, organism-specific biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;
Function	MHC class I receptor activity;

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