

ULBP1, human recombinant protein
NKG2D ligand 1, UL16 binding protein 1, RAET1I, N2DL-1, N2DL1, NKG2D ligand 1
Catalog # PBV10957r

Specification

ULBP1, human recombinant protein - Product info

Primary Accession	O9BZM6
Concentration	0.5
Calculated MW	25 kDa (216 aa, 26-216 aa + His Tag), confirmed by MALDI-TOF. kDa

ULBP1, human recombinant protein - Additional Info

Gene ID	80329
Gene Symbol	ULBP1
Other Names	
NKG2D ligand 1, UL16 binding protein 1, RAET1I, N2DL-1, N2DL1, NKG2D ligand 1	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHM GWVDT HCLCYDFIIT PKSRPEPQWC EVQGLVDERP FLHYDCVNHK AKAFASLGKK VNVTKTWEEQ TETLRDVVDF LKGQLLDIQV ENLIPIEPLT LQARMSCEHE AHGHGRGSWQ FLFNGQKFLL FDSNNRKWTA LHPGAKKMTE KWEKNRDVTM FFQKISLGDC KMWLEEFMY WEQMLDPTKP PSLAPG

Target/Specificity
ULBP1

Format
Liquid

Storage
-80°C; 0.5 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.15 M NaCl, 30% glycerol and 1 mM DTT.

ULBP1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ULBP1, human recombinant protein - Images**ULBP1, human recombinant protein - Background**

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. Recombinant human ULBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

ULBP1, human recombinant protein - References

Cosman D.,et al.Immunity 14:123-133(2001).
Onda H.,et al.Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.
Radosavljevic M.,et al.Genomics 79:114-123(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).