10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ULBP2, human recombinant protein
NKG2D ligand 2, N2DL2, RAET1H
Catalog # PBV10958r

Specification

ULBP2, human recombinant protein - Product info

Primary Accession	Q9BZM5
Concentration	1
Calculated MW	24.3 kDa (216 aa, 26-216 aa + His Tag), confirmed by MALDI-TOF. KDa

ULBP2, human recombinant protein - Additional Info

Gene ID	80328
Gene Symbol	ULBP2
Other Names	
NKG2D ligand 2, N2DL2, RAET1H	
Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥85%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMGRADP HSLCYDITVI PKFRPGPRWC AVQGQVDEKT FLHYDCGNKT VTPVSPLGKK LNVTTAWKAQ NPVLREVVDI LTEQLRDIQL ENYTPKEPLT LQARMSCEQK AEGHSSGSWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMS

Target/Specificity
ULBP2

Format
Liquid

Storage
-80°C; 1 mg/ml in 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, 30% glycerol, 2 M Urea and 2 mM DTT.

ULBP2, 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 Cytomety
- Cell Culture

ULBP2, human recombinant protein - Images

ULBP2, human recombinant protein - Background

ULBP2, also known as NKG2D ligand 2, belongs to the MHC class I family. This protein is ligand for the NKG2D receptor, together with at least ULBP1 and ULBP3. ULBPs activate multiple signaling pathways in primary NK 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. In CMV infected cells, 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 ULBP2 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface. Recombinant human ULBP2 protein, fused to His-tag at N-terminus, was expressed in E.coli.