

Recombinant human ULBP-1 protein

Catalog Number: ATGP1731

PRODUCT INFORMATION

Expression system

E.coli

Domain

26-216aa

UniProt No.

Q9BZM6

NCBI Accession No.

NP_079494

Alternative Names

UL16 binding protein 1, ALCAN-beta, NKG2D ligand 1, N2DL-1, NKG2DL1, Retinoic acid early transcript 1I, RAET1I

PRODUCT SPECIFICATION

Molecular Weight

25 kDa (216aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human uLBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified

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by using conventional chromatography techniques.

Amino acid Sequence

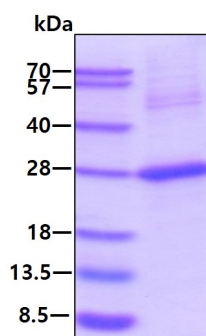
<MGSSHHHHHH SSGLVPRGSH MGSHM>GWVDT HCLCYDFIIT PKSRPEPQWC EVQGLVDERP FLHYDCVNHK
AKAFASLGKK VNVTKTWEEQ TETLRDVVDF LKGQLLDIQV ENLIPIEPLT LQARMSCEHE AHGHGRGSWQ FLFNGQKFL
FDSNNRKWTA LHPGAKKMTE KWEKNRDVTM FFQKISLGDC KMWLEEFMY WEQMLDPTKP PSLAPG

General References

Cerwenka A., et al. (2003). Tissue Antigens. 61:335-343.
Bacon L., et al. (2004). J Immunol. 173:1078-1084.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.