Recombinant human ULBP-6/RAET1L Protein

Catalog Number: ATGP4023

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
26-218aa

UniProt No.
Q5VY80

NCBI Accession No.
NP_570970

Alternative Names
early transcript 1L, ULBP6, UL16-binding protein 6 ,RAET1L, retinoic acid early transcript 1L protein, retinoic acid early transcript 1L

PRODUCT SPECIFICATION

Molecular Weight
22.9kDa (202aa)

Concentration
1mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS - PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Measured by its binding ability in a functional ELISA with Human NKG2D (CAT# ATGP3662).

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Recombinant human ULBP-6/RAET1L Protein

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Description

RAET1L, also known as retinoic acid early transcript 1L, linked to the cell membrane by the GPI anchor. This protein functions as a stress-induced ligand for NKG2D receptor. Its expression is, for example, triggered in course of HCMV infection, but HCMV alters its function. HCMV-encoded UL16 glycoprotein retains RAET1L/ULBP6 inside the cells, preventing it from reaching the cell surface and being exposed to cells of the immune system. It had a more restricted expression profile in cell lines and primary human tissues than other NKG2D ligands. RAET1L mRNA shows restricted expression in the trachea and some HPV positive cervical carcinoma and colorectal carcinoma cell lines. Recombinant human RAET1L, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

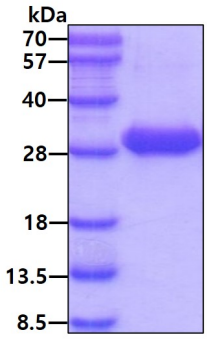
<ADP>RRDDPHS LCYDITVIPK FRPGPRWCAV QGQVDEKTFL HYDCGNKTVT PVSPLGKKLN VTMAWKAQNP VLREVVDILT EQLLDIQLEN YTPKEPLTLQ ARMSCEQKAE GHSSGSWQFS IDGQTFLLFD SEKRMWTTVH PGARKMKEKW ENDKDVAMSF HYISMGDCIG WLEDFLMGMD STLEPSAGAP LAMSSG<HHHH HH>

General References

Eagle R.A., et al. (2009) Eur. J. Immunol. 39:3207.
Kondo M., et al. (2010) Immunogenetics 62:441.

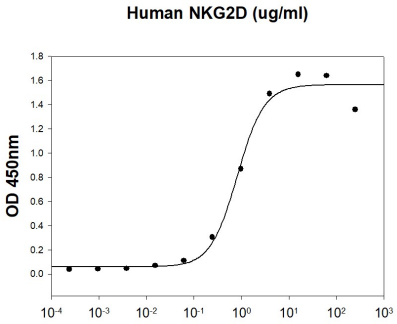
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity



Human RAET1L/ULBP6 is coated at 10 ug/ml (100 ul/well) can bind Human NKG2D (CAT# ATGP3662) in a Functional ELISA assay.