Datasheet for ABIN7520622

ULBP1 Protein (His tag,AVI tag)

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Overview

Quantity:	100 µg
Target:	ULBP1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ULBP1 protein is labelled with His tag,AVI tag.

Product Details

Purpose:	Active Recombinant Human NKG2D ligand 1/ULBP1 Protein
Sequence:	GWVDTHCLCY DFIITPKSRP EPQWCEVQGL VDERPFLHYD CVNHKAKAFA SLGKKVNVTK TWEEQTETLR DVVDFLKGQL LDIQVENLIP IEPLTLQARM SCEHEAHGHG RGSWQFLFNG QKFLLFDSNN RKWTALHPGA KKMTEKWEKN RDVTMFFQKI SLGDCKMWLE EFLMYWEQML DPTKPPSLAP
Specificity:	Gly26-Pro215
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Target Details

Target:	ULBP1
Alternative Name:	NKG2D ligand 1/ULBP1 (ULBP1 Products)

Target Details

Background:	Description: UL16-binding proteins (ULBP) or retinoic acid early transcripts-1 (RAET1) are ligands to the activating receptor, NKG2D. Ten members of the human ULBP/RAET1 gene family have been identified to encode for potentially functional proteins, and have tissue-specific expressions. ULBP1, also known as RAET1I and NKG2DL1, together with at least ULBP 2 and 3, are well-known ligands for NKG2D, and activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. ULBP1 is expressed in T-cells, B-cells, erythroleukemia cell lines and in a wide range of tissues including heart, brain, lung, liver and bone marrow, as well as some tumor cells. As an unconventional member of the MHC class I family, ULBP1 function in immune responses, especially in cancer and infectious diseases. Unlike other ULBP members, ULBP1 is able to interact with soluble CMV glycoprotein UL16 in CMV infected cells. The interaction with UL16 blocked the interaction with the NKG2D receptor, and thus might escape the immune surveillance. Furthermore, UL16 also causes ULBP1 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface. The ULBP1 regulation may have implications for development of new therapeutic strategies against cancer cells. Name: ULBP1,N2DL-1,NKG2DL1,RAET1I
Gene ID:	80329
UniProt:	Q9BZM6
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term.|After reconstitution, the protein

solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

