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Datasheet for ABIN7534413
ULBP2 Protein (Fc Tag,His tag)

Overview

Quantity:	100 µg
Target:	ULBP2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ULBP2 protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human NKG2D ligand 2/ULBP2 Protein
Sequence:	GRADPHSLCY DITVIPKFRP GPRWCAVQGG VDEKTFLHYD CGNKTVTPVS PLGKKLNVTT AWKAQNPVLR EVVDILTEQL RDIQLENYTP KEPLTLQARM SCEQKAEGHS SGSWQFSFDG QIFLLFDSEK RMWTTVHPGA RKMKEKWEND KVVAMSFHYF SMGDCIGWLE DFLMGMDSTL EPSAGAPLAM SS
Specificity:	Gly26-Ser217
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 Protein at 2µg/mL (100 µL/well) can bind NKG2D-raFc with a linear range of 1.95-336.7ng/mL.

Target Details

Target:	ULBP2
Alternative Name:	NKG2D ligand 2/ULBP2 (ULBP2 Products)
Background:	<p>Description: ULBP2 Protein, Human, Recombinant (His Tag) consists of 203 amino acids with a molecular weight of 23.2 kDa. The apparent molecular mass of recombinant human ULBP2 is about 33 kDa in SDS-PAGE under reducing conditions because of glycosylation. NKG2D ligand 2 is cell membrane protein belonging to the MHC class I family. The gene for ULBP-2 resides in a cluster of ten related genes, six of which encode potentially functional glycoproteins. ULBPs are known to bind to human NKG2D, an activating receptor expressed on NK cells, NKT cells, gamma δ T cells, and CD8+ alpha beta T 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. ULBP2 / N2DL-2 is not expressed in normal tissues, but in various types of cancer cell lines and the fetus and has been implicated in tumor surveillance.</p> <p>Name: ULBP2,ALCAN-alpha,N2DL2,NKG2DL2,RAET1H</p>
Gene ID:	80328
UniProt:	Q9BZM5

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 vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (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 μ m filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	<p>Store the lyophilized protein at -20°C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>