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## Datasheet for ABIN7520623 ULBP2 Protein (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 His tag.

## Product Details

Purpose:	Active Recombinant Human NKG2D ligand 2/ULBP2 Protein
Sequence:	GRADPHSLCY DITVIPKFRP GPRWCAVQGQ VDEKTFLHYD CGNKTVTPVS PLGKKLNVTT
	AWKAQNPVLR EVVDILTEQL RDIQLENYTP KEPLTLQARM SCEQKAEGHS SGSWQFSFDG
	QIFLLFDSEK RMWTTVHPGA RKMKEKWEND KVVAMSFHYF SMGDCIGWLE DFLMGMDSTL
	EPSAGAPLAM SS
Specificity:	Gly26-Ser217
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/ $\mu$ g of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 at $2\mu$ g/mL
	(100 µL/well) can bind NKG2D with a linear range of 0.122-22.17ng/mL.

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Target De	tails
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Target:	ULBP2
Alternative Name:	NKG2D ligand 2/ULBP2 (ULBP2 Products)
Background:	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 theMHC 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 $\delta$ 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.
	Name: ULBP2,ALCAN-alpha,N2DL2,NKG2DL2,RAET1H
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 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 $\mu m$ 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.

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