

ARG81611 Human ULBP2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81611-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81611-002	Standard	2 X 10 ng/vial	4°C
ARG81611-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81611-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81611-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81611-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81611-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81611-008	25X Wash buffer	20 ml	4°C
ARG81611-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81611-010	STOP solution	10 ml (Ready to use)	4°C
ARG81611-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81611 Human ULBP2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human ULBP2 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ULBP2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3% Inter-Assay CV: 7.1%
Alternate Names	N2DL-2; Retinoic acid early transcript 1H; RAET1H; NKG2DL2; UL16-binding protein 2; N2DL2; ALCAN-alpha; NKG2D ligand 2

Application Instructions

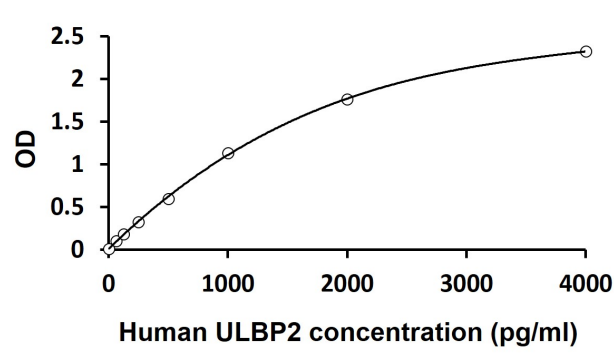
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ULBP2
Gene Full Name	UL16 binding protein 2
Background	This gene encodes a major histocompatibility complex (MHC) class I-related molecule that binds to the NKG2D receptor on natural killer (NK) cells to trigger release of multiple cytokines and chemokines that in turn contribute to the recruitment and activation of NK cells. The encoded protein undergoes further processing to generate the mature protein that is either anchored to membrane via a glycosylphosphatidylinositol moiety, or secreted. Many malignant cells secrete the encoded protein to evade immunosurveillance by NK cells. This gene is located in a cluster of multiple MHC class I-related genes on chromosome 6. [provided by RefSeq, Jul 2015]
Function	Ligand for the KLRK1/NKG2D receptor, together with at least ULBP1 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBPs ligands to KLRK1/NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. In CMV infected cells, interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the KLRK1/NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP2 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface. [UniProt]
Highlight	Related products: ULBP antibodies ; ULBP ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81611 Human ULBP2 ELISA Kit standard curve image

ARG81611 Human ULBP2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.