

ARG83782

arigoQIK® Human ULBP1 ELISA Development Kit

Package: 1 kit(5 plates), 1 kit
(15 plates)
Store at: 4°C, -20°C

Summary

Product Description

ARG83782 arigoQIK® Human ULBP1 ELISA Development Kit, includes Capture antibody, Detection antibody, Standard, and HRP-Streptavidin Solution.
This ELISA Development Kit is designed for the development of sandwich ELISA to measure Human ULBP1 in Serum, plasma and cell culture supernatants.

For other reagents required for [arigoQIK® ELISA Development Kit](#), please refer [ARG83524 Integral Reagent Kit \(ELISA Development Kit\)](#)

More about arigoQIK®:

- Optimized capture and detection antibody pairs
- Reduced incubation time and wash cycles
- 2-hour quicker than conventional ELISA process
- 5- and 15-plate packages available

Tested Reactivity

Hu

Tested Application

ELISA

Target Name

ULBP1

Conjugation

HRP

Conjugation Note

Substrate: TMB and read at 450 nm.

Sensitivity

2 pg/mL

Sample Type

Serum, plasma and cell culture supernatants.

Standard Range

3.91-250 pg/mL

Sample Volume

50 µL

Alternate Names

UL16-binding protein 1; Retinoic acid early transcript 1l; RAET1l; N2DL-1; NKG2DL1; NKG2D ligand 1; ALCAN-beta

Properties

Storage instruction

Store components at 4°C or -20°C. 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

ULBP1

Gene Full Name

UL16 binding protein 1

Background

The protein encoded by this gene is a ligand of natural killer group 2, member D (NKG2D), an immune system-activating receptor on NK cells and T-cells. Binding of the encoded ligand to NKG2D leads to activation of several signal transduction pathways, including those of JAK2, STAT5, ERK and PI3K kinase/Akt. Also, in cytomegalovirus-infected cells, this ligand binds the UL16 glycoprotein and is prevented from activating the immune system. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]

Function	Ligand for the KLRK1/NKG2D receptor, together with at least ULBP2 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 ULBP1 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface. [UniProt]
Highlight	Related news: arigoQIK, DIY your sandwich ELISA kits;
Cellular Localization	Cell membrane; Lipid-anchor, GPI-anchor. Endoplasmic reticulum. Note=In CMV-infected fibroblasts, detected in the endoplasmic reticulum/cis-Golgi. [UniProt]