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Datasheet for ABIN5510744

ULBP2 ELISA Kit

1 Image

Overview

Quantity: 96 tests

Target: ULBP2

Binding Specificity: AA 26-216

Reactivity: Human

Method Type: Sandwich ELISA

Application: ELISA

Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ULBP2

Brand: PicoKine™

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: Expression system for standard: NSO, Immunogen sequence: G26-S216

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

Characteristics: Tissue Specificity: Expressed in various types of cancer cell lines and in the fetus, but not in normal tissues. .

Target Details

Target: ULBP2

Alternative Name: ULBP2 ([ULBP2 Products](#))

Target Details

Background: Protein 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. .

Background: UL16 binding protein 2 (ULBP2) is a cell surface glycoprotein encoded by ULBP2 gene located on the chromosome 6. 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.

Synonyms: NKG2D ligand 2,N2DL-2,NKG2DL2,ALCAN-alpha,Retinoic acid early transcript 1H,UL16-binding protein 2,ULBP2,N2DL2, RAET1H,UNQ463/PRO791,

Full Gene Name: NKG2D ligand 2

Cellular Localisation: Cell membrane, Lipid-anchor, GPI-anchor. Secreted.

UniProt: [Q9BZM5](#)

Application Details

Plate: Pre-coated

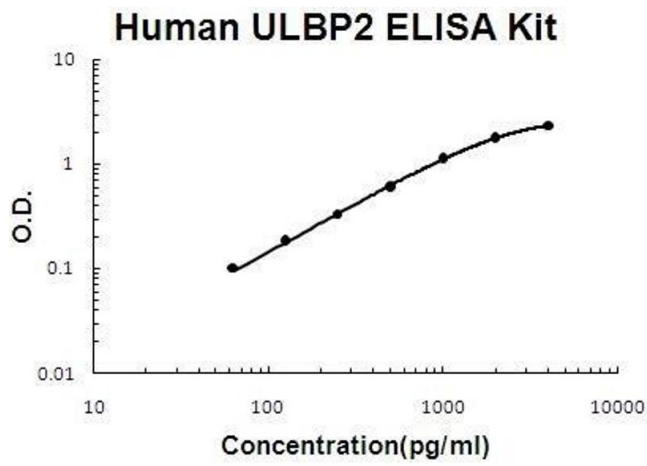
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Human ULBP2 PicoKine ELISA Kit standard curve