

For Research Use Only

# ULBP2 Recombinant antibody

Catalog Number:83709-1-RR



## Basic Information

**Catalog Number:**

83709-1-RR

**Size:**

1000 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_025217.4

**GeneID (NCBI):**

80328

**UNIPROT ID:**

Q9BZM5

**Full Name:**

UL16 binding protein 2

**Calculated MW:**

27 kDa

**Observed MW:**

30 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

240413A6

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Species Specificity:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : Jurkat cells, Saos-2 cells, THP-1 cells, COLO 320 cells

IHC : human colon cancer tissue,

## Background Information

NKG2D is an activating cell surface receptor that is predominantly expressed on cytotoxic immune cells. NKG2D recognizes a wide range of ligands. In humans, the NKG2D ligand (NKG2DL) includes MICA, MICB, and six members of the ULBP family (ULBP1-6) (PMID: 29568297; 30813924). ULBPs are MHC class I-related molecules (PMID: 11239445). ULBP2 contains two Ig-like domains, the alpha-1 and alpha-2 domains characteristic of the MHC class I family, but lacks the alpha-3 domain. It can be expressed as either a transmembrane or GPI-linked protein, or released from the cell surface (PMID: 21224393; 24614922). ULBP2 binds and activates the NKG2D, mediating the recruitment and activation of NK cells.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

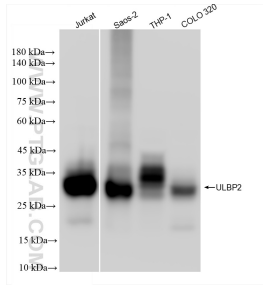
T: 4006900926

E: Proteintech-CN@ptglab.com

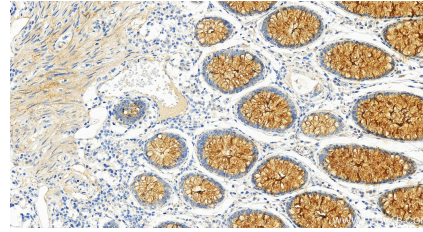
W: ptgcn.com

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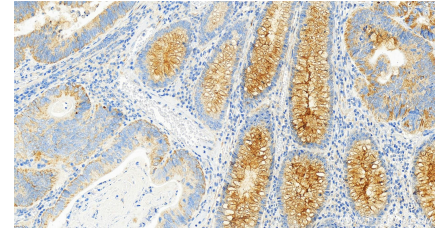
## Selected Validation Data



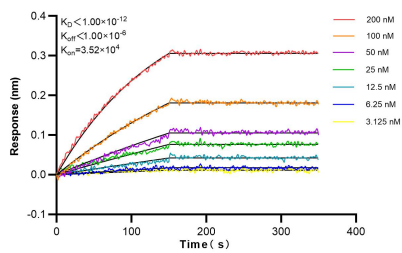
Various lysates were subjected to SDS PAGE followed by western blot with 83709-1-RR (ULBP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 83709-1-RR (ULBP2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Biolayer interferometry (BLI) kinetic assays of 83709-1-RR against Human ULBP2 were performed. The affinity constant is below 1 pM.