

For Research Use Only

# ULBP2 Polyclonal antibody

Catalog Number: 13133-1-AP

3 Publications



## Basic Information

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| <b>Catalog Number:</b><br>13133-1-AP   | <b>GenBank Accession Number:</b><br>BC034689 | <b>Purification Method:</b><br>Antigen affinity purification         |
| <b>Size:</b><br>150ul , Concentration: 500 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>80328               | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:500-1:2000 |
| <b>Source:</b><br>Rabbit   | <b>UNIPROT ID:</b><br>Q9BZM5                 |  |
| <b>Isotype:</b><br>IgG   | <b>Full Name:</b><br>UL16 binding protein 2  |  |
| <b>Immunogen Catalog Number:</b><br>AG3798   | <b>Calculated MW:</b><br>246 aa, 27 kDa      |  |
|  | <b>Observed MW:</b><br>30 kDa                |  |

## Applications

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|--|--|
| <b>Tested Applications:</b><br>WB, IHC, ELISA  | <b>Positive Controls:</b>                                    |
| <b>Cited Applications:</b><br>WB   | <b>WB :</b> Jurkat cells,                                    |
| <b>Species Specificity:</b><br>human   | <b>IHC :</b> human liver cancer tissue, human gliomas tissue |
| <b>Cited Species:</b><br>human   |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## 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.

## Notable Publications

| Author      | Pubmed ID | Journal             | Application |
|-------------|-----------|---------------------|-------------|
| Jun Weng    | 31360109  | Int J Biol Sci      | WB          |
| Hui-Yang Wu | 34999394  | Int Immunopharmacol | WB          |
| Deli Mao    | 37591356  | Cancer Lett         | WB          |

## 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

\*\*\* 20ul sizes contain 0.1% BSA

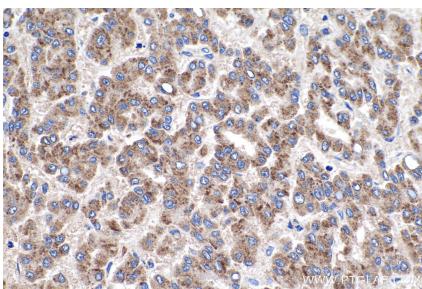
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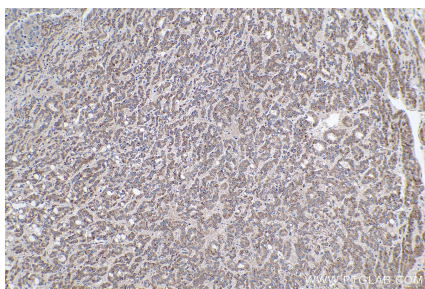
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 13133-1-AP (ULBP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13133-1-AP (ULBP2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13133-1-AP (ULBP2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).