

For Research Use Only

# OTUD1 Polyclonal antibody

Catalog Number: 29921-1-AP **2 Publications**



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>29921-1-AP        | <b>GenBank Accession Number:</b><br>GeneID (NCBI):<br>220213 | <b>Purification Method:</b><br>Antigen affinity purification        |
| <b>Size:</b><br>650 µg/ml                   | <b>UNIPROT ID:</b><br>Q5VV17                                 | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit                    | <b>Full Name:</b><br>OTU domain containing 1                 |   |
| <b>Isotype:</b><br>IgG                      | <b>Calculated MW:</b><br>51 kDa                              |   |
| <b>Immunogen Catalog Number:</b><br>AG31996 | <b>Observed MW:</b><br>50-55 kDa                             |   |

## Applications

|   |   |
|---|---|
| <b>Tested Applications:</b><br>WB, IHC, ELISA | <b>Positive Controls:</b><br>WB : mouse colon tissue, A549 cells                        |
| <b>Cited Applications:</b><br>WB, IF          | <b>IHC :</b> human cervical cancer tissue, human ovary tumor tissue, mouse liver tissue |
| <b>Species Specificity:</b><br>human, mouse   |   |
| <b>Cited Species:</b><br>human                |   |

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

## Background Information

OTUD1, OTU domain-containing protein 1, is a deubiquitinating enzyme that specifically hydrolyzes 'Lys-63'-linked polyubiquitin to monoubiquitin (PMID: 23827681). OTUD1-mediated deubiquitination prevents activation of the ribosome quality control and subsequent dissociation of ribosomes and stimulates formation of polysomes and translation (PMID: 36445135). OTUD1 is a colon-specific deubiquitinase that expressed in normal colonic epithelium goblet cells (PMID: 36910614).

## Notable Publications

| Author      | Pubmed ID | Journal       | Application |
|-------------|-----------|---------------|-------------|
| Lu Hongquan | 38744338  | Int J Cardiol |             |
| Yurou Chen  | 38351029  | Nat Commun    | WB,IF       |

## 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:

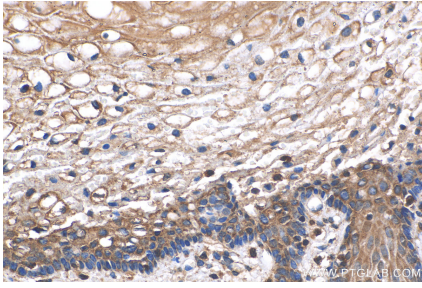
T: 4006900926

E: Proteintech-CN@ptglab.com

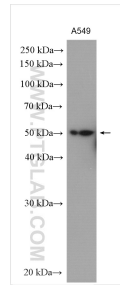
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

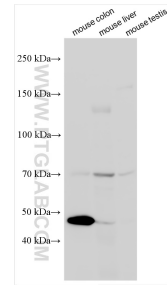
## Selected Validation Data



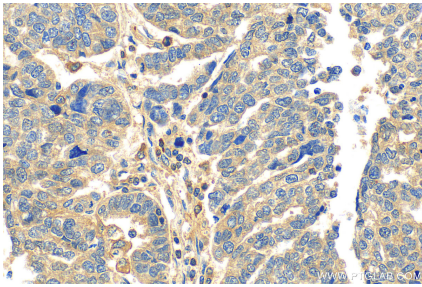
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 29921-1-AP (OTUD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



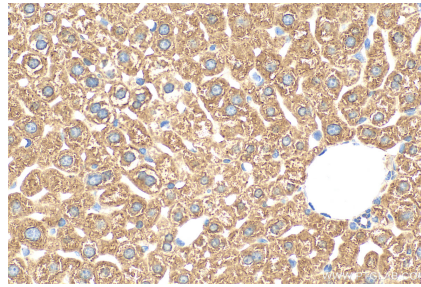
A549 cells were subjected to SDS PAGE followed by western blot with 29921-1-AP (OTUD1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



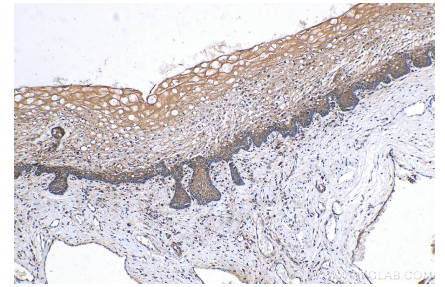
Various lysates were subjected to SDS PAGE followed by western blot with 29921-1-AP (OTUD1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 29921-1-AP (OTUD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 29921-1-AP (OTUD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 29921-1-AP (OTUD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).