

For Research Use Only

# OTUB1 Polyclonal antibody

Catalog Number: 10573-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 10573-1-AP	<b>GenBank Accession Number:</b> BC007519	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55611	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96FW1	
<b>Isotype:</b> IgG	<b>Full Name:</b> OTU domain, ubiquitin aldehyde binding 1	
<b>Immunogen Catalog Number:</b> AG0845	<b>Calculated MW:</b> 31 kDa and 35 kDa	
	<b>Observed MW:</b> 31-35 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, ELISA	<b>Positive Controls:</b> WB : MCF-7 cells, HepG2 cells, mouse brain tissue, mouse cerebellum tissue, rat brain tissue IF : U2OS cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> mouse	

## Background Information

OTUB1 belongs to the ovarian tumor domain protease (OTU) subfamily of deubiquitinases, which could block ubiquitination leading to protein stability. OTUB1 mainly prefers k-48 and k-63 ubiquitin chains type, especially in k-48 ubiquitin chain. OTUB1 performs its deubiquitinating function via two distinct manners: the canonical and non-canonical manner. OTUB1 is involved in many critical immune response processes, containing CD8 T cell activation, PD-L1 related immune evasion, and several infectious diseases. OTUB1 plays an important role in the occurrence, proliferation, invasion, and progression of various cancers, such as bladder cancer, breast cancer, prostate cancer, and colorectal cancer (PMID: 34875341, 35296795). OTUB1 has 2 isoforms with molecular weights of 31 and 35 kDa, respectively. With phospho or ubiquitin modification or reaction, the MW of OTUB1 will be increased.

## Notable Publications

Author	Pubmed ID	Journal	Application
Cyriel S Olie	30739015	iScience	WB

## Storage

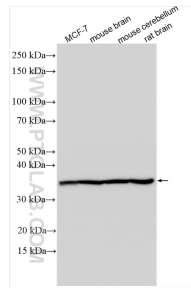
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

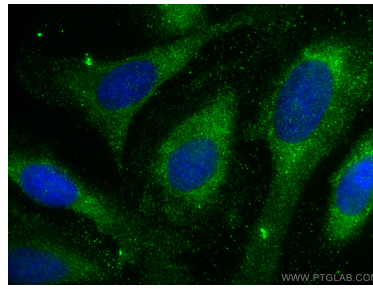
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10573-1-AP (OTUB1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using OTUB1 antibody (10573-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).