

For Research Use Only

# USP30 Polyclonal antibody

Catalog Number: 15402-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 15402-1-AP	<b>GenBank Accession Number:</b> BC004868	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 900 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84749	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> ubiquitin specific peptidase 30	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 58.5 kDa	
<b>Immunogen Catalog Number:</b> AG7620	<b>Observed MW:</b> 59-67 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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** : Daudi cells, HepG2 cells, hTERT-RPE1 cells, mouse kidney tissue, rat kidney tissue

**IHC** : human liver cancer tissue, human colon cancer tissue

**IF** : A549 cells,

## Background Information

USP30, a mitochondrion-localized deubiquitylase, regulates mitophagy. Mitochondrial damage stimulates parkin to assemble Lys 6, Lys 11 and Lys 63 chains on mitochondria, and that USP30 is a ubiquitin-specific deubiquitylase with a strong preference for cleaving Lys 6- and Lys 11-linked multimers. USP30 can be ubiquitinated by parkin (PARK2) at Lys-235 and Lys-289. USP30 inhibition is potentially beneficial for treating Parkinson disease by promoting mitochondrial clearance and quality control. USP30 was detected 67 kDa by ubiquitination (PMID: 34704599).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yang Wu	37300943	Biochem Biophys Res 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

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

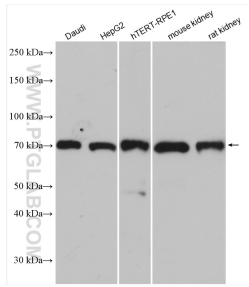
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

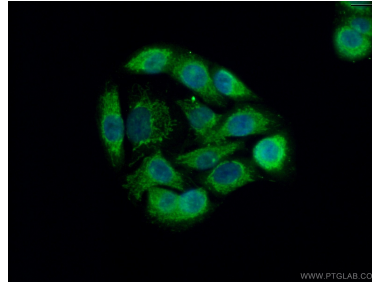
E: proteintech@ptglab.com  
W: ptglab.com

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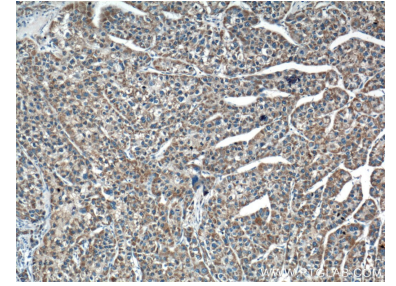
## Selected Validation Data



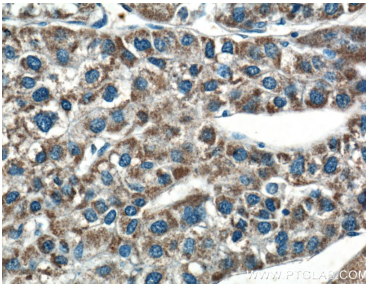
Various lysates were subjected to SDS PAGE followed by western blot with 15402-1-AP (USP30 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



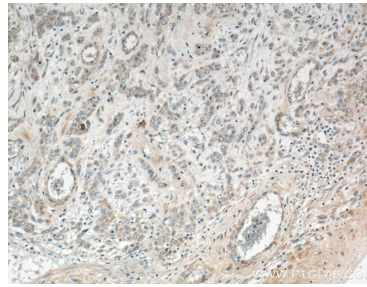
Immunofluorescent analysis of (4% PFA) fixed A549 cells using 15402-1-AP (USP30 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



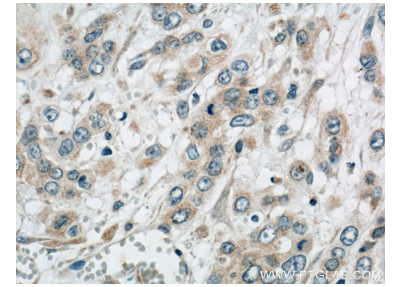
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15402-1-AP (USP30 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15402-1-AP (USP30 antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15402-1-AP (USP30 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15402-1-AP (USP30 antibody) at dilution of 1:200 (under 40x lens).