

For Research Use Only

# USP5 Polyclonal antibody

Catalog Number: 15158-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

15158-1-AP

**Size:**

267 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7252

**GenBank Accession Number:**

BC005139

**GeneID (NCBI):**

8078

**UNIPROT ID:**

P45974

**Full Name:**

ubiquitin specific peptidase 5

(isopeptidase T)

**Calculated MW:**

96 kDa

**Observed MW:**

95-105 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

WB, IP, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

mouse

**Positive Controls:**

WB: mouse lung tissue, A549 cells, HeLa cells, human brain tissue, rat lung tissue, rat brain tissue, MDA-MB-453s cells

IP: mouse brain tissue,

## Background Information

USP5, also named as ISOT, belongs to the peptidase C19 family. Knock-down of USP5 causes the accumulation of TP53/p53 and an increase in TP53/p53 transcriptional activity because the unanchored polyubiquitin that accumulates is able to compete with ubiquitinated TP53/p53 but not with MDM2 for proteasomal recognition. USP5 is a potential target for p53 activating therapeutic agents for the treatment of cancer (PMID: 19098288). It is a novel proteasome associated protein (PMID: 19182904). USP5 cleaves linear and branched multiubiquitin polymers with a marked preference for branched polymers.

## Notable Publications

Author	Pubmed ID	Journal	Application
Agustin Garcia-Caballero	25189210	Neuron	WB, IP, IF
Mufeng Du	33913576	FASEB J	WB
Shiori Tomita	30552955	Toxicology	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

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

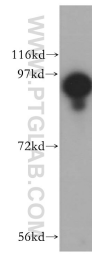
T: 4006900926

E: Proteintech-CN@ptglab.com

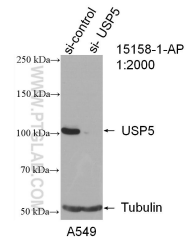
W: ptgcn.com

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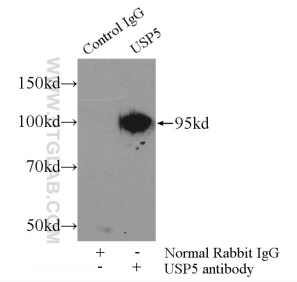
## Selected Validation Data



mouse lung tissue were subjected to SDS PAGE followed by western blot with 15158-1-AP (USP5 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



WB result of USP5 antibody (15158-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP5 transfected A549 cells.



IP result of anti-USP5 (IP:15158-1-AP, 4ug; Detection:15158-1-AP 1:1000) with mouse brain tissue lysate 4000ug.