

For Research Use Only

# USP25 Polyclonal antibody

Catalog Number: 12199-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

12199-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2837

### GenBank Accession Number:

BC015930

### GeneID (NCBI):

29761

### UNIPROT ID:

Q9UHP3

### Full Name:

ubiquitin specific peptidase 25

### Calculated MW:

125 kDa

### Observed MW:

125 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:200-1:800

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: BxPC-3 cells, mouse cerebellum tissue, K-562 cells

IP: RAW 264.7 cells,

IHC: human lung cancer tissue,

**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

Ubiquitin carboxyl-terminal hydrolase 25, encoded by USP25 gene, has three isoforms by alternative splicing. Isoform USP25a is found in most adult and fetal tissues; Isoform USP25b is found in all tissues except heart and skeletal muscle. Isoform USP25m is heart and skeletal muscle specific, and is upregulated during myogenesis, therefore, may have a role in the regulation of muscular differentiation and function. USP25, as deubiquitinating enzyme that hydrolyzes ubiquitin moieties conjugated to substrates, functions to process newly synthesized Ubiquitin, to recycle ubiquitin molecules or to edit polyubiquitin chains and prevents proteasomal degradation of substrates.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ying Ren	36442624	Biochem Pharmacol	WB
Shuoyi Jiang	33963175	Cell Death Dis	WB
Xiaofei Zhang	28190767	Mol Cell	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

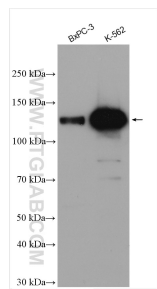
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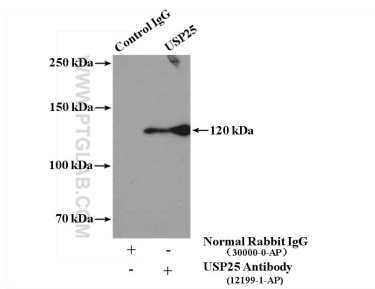
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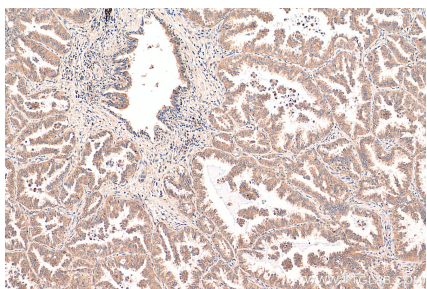
Selected Validation Data



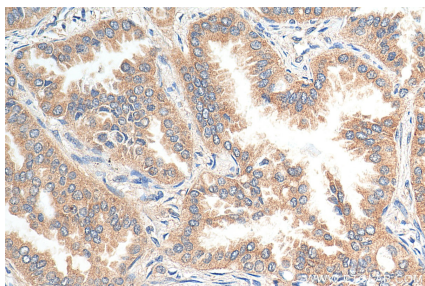
Various lysates were subjected to SDS PAGE followed by western blot with 12199-1-AP (USP25 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-USP25 (IP:12199-1-AP, 4ug; Detection:12199-1-AP 1:300) with RAW 264.7 cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12199-1-AP (USP25 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12199-1-AP (USP25 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).