

For Research Use Only

# USP20 Polyclonal antibody

Catalog Number:17491-1-AP

Featured Product

15 Publications



## Basic Information

### Catalog Number:

17491-1-AP

### Size:

150ul , Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11590

### GenBank Accession Number:

BC039593

### GeneID (NCBI):

10868

### UNIPROT ID:

Q9Y2K6

### Full Name:

ubiquitin specific peptidase 20

### Calculated MW:

914 aa, 102 kDa

### Observed MW:

110-120 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IP, IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, 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 : mouse brain tissue, HeLa cells, HepG2 cells

IP : HeLa cells,

IHC : human kidney tissue, human testis tissue, human brain tissue, human spleen tissue, human lung tissue, human ovary tissue

## Background Information

USP20(ubiquitin carboxyl-terminal hydrolase 20) is also named as KIAA1003, LSFR3A, VDU2 and belongs to the peptidase C19 family and the USP20/USP33 subfamily. It can specifically deubiquitinate and stabilize HIF1A and, therefore, increase expression of HIF-1alpha targeted genes, such as vascular endothelial growth factor (VEGF). It also plays a central role in ADRB2 recycling and resensitization after prolonged agonist stimulation by constitutively binding ADRB2, mediating deubiquitination of ADRB2 and inhibiting lysosomal trafficking of ADRB2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenyang Li	32943575	Genes Dev	WB,IHC
Ruitao Lu	34901390	Mol Ther Oncolytics	WB,IP
Chao Wang	28350092	Int J Oncol	WB,IHC

## 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

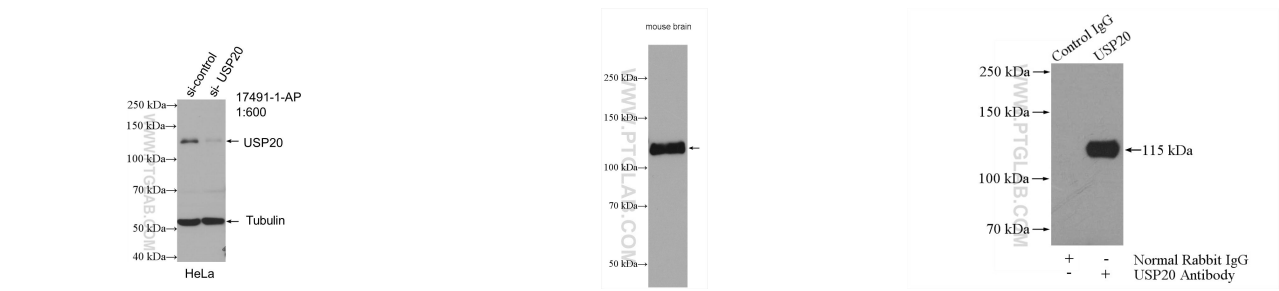
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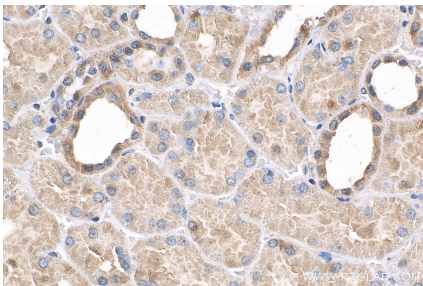
Selected Validation Data



WB result of USP20 antibody (17491-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP20 transfected HeLa cells.

mouse brain tissue lysates were subjected to SDS PAGE followed by western blot with 17491-1-AP (USP20 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

IP result of anti-USP20 (IP:17491-1-AP, 4ug; Detection:17491-1-AP 1:500) with HeLa cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17491-1-AP (USP20 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).