

For Research Use Only

# USP50 Polyclonal antibody

Catalog Number: 20374-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

20374-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_203494

**GeneID (NCBI):**

373509

**UNIPROT ID:**

Q70EL3

**Full Name:**

ubiquitin specific peptidase 50

**Calculated MW:**

39 kDa

**Observed MW:**

40 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Cited Applications:**

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 : mouse brain tissue, mouse testis tissue

IHC : mouse testis tissue, human hepatocirrhosis tissue, human testis tissue

IF/ICC : HEK-293 cells,

## Background Information

Ubiquitin-specific protease 50 (USP50) belongs to the peptidase C19 family. USP50 has been shown to regulate cell cycle and DNA repair through interaction with the Wee1 protein in transformed human osteosarcoma and human epithelial cell lines. USP50 has also been shown to play a role in inflammasomal function through targeting the adaptor protein (PMID: 29101126). USP50 has 2 isoforms with the molecular mass of 38 and 39 kDa. Sometimes higher molecular weight around 44 kDa can also be observed, which may be a modified variant of USP50.

## Notable Publications

Author	Pubmed ID	Journal	Application
Junting Cai	29101126	J Investig Med	WB
Rongqing Li	34976224	Theranostics	WB
Yibo Zuo	36876523	EMBO Rep	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:

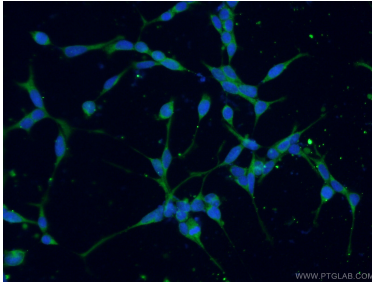
T: 4006900926

E: Proteintech-CN@ptglab.com

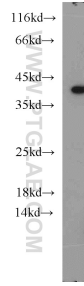
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

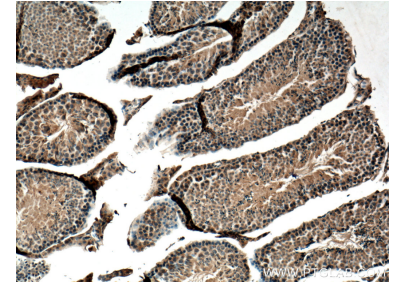
## Selected Validation Data



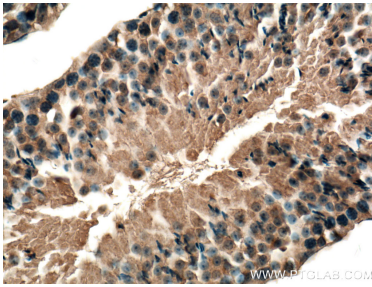
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 20374-1-AP (USP50 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 20374-1-AP (USP50 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 20374-1-AP (USP50 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 20374-1-AP (USP50 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).