

For Research Use Only

USP3 Polyclonal antibody

Catalog Number: 12490-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

12490-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3085

GenBank Accession Number:

BC018113

GeneID (NCBI):

9960

UNIPROT ID:

Q9Y6L4

Full Name:

ubiquitin specific peptidase 3

Calculated MW:

520 aa, 59 kDa

Observed MW:

53-59 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:400-1:1600

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

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: A549 cells, K-562 cells, RAW264.7, HepG2 cells, Jurkat cells

IP: mouse liver tissue,

IHC: human stomach cancer tissue,

IF/ICC: HeLa cells, HepG2 cells, MCF-7 cells

Background Information

USP3 (Ubiquitin carboxyl-terminal hydrolase 3) belongs to the peptidase C19 family. It may regulate the DNA damage response (DDR) checkpoint through deubiquitination of H2A at DNA damage sites. USP3 is implicated as a novel chromatin modifier in the maintenance of genome integrity. This protein has 2 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Wanxin Zhuang	36050480	Cell Mol Immunol	WB, IF, IP, CoIP
Ke Shi	34758762	BMC Cancer	WB
Simin Zhao	36574218	Chin Med J (Engl)	WB, CoIP

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

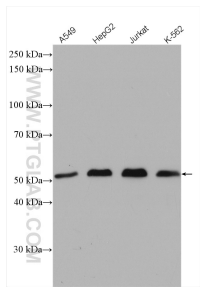
For technical support and original validation data for this product please contact:

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

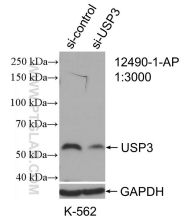
E: proteintech@ptglab.com
W: ptglab.com

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

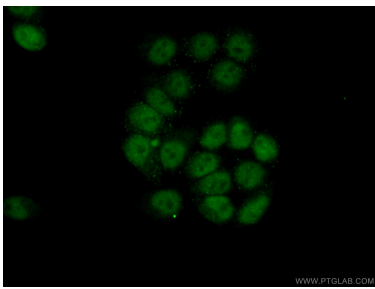
Selected Validation Data



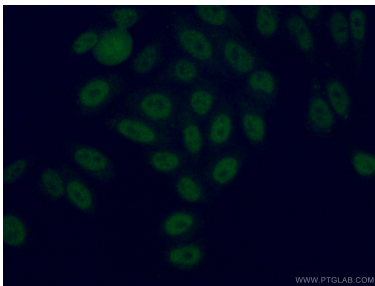
Various lysates were subjected to SDS PAGE followed by western blot with 12490-1-AP (USP3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



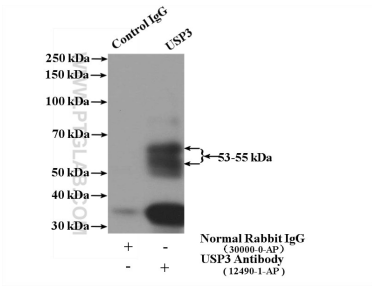
WB result of USP3 antibody (12490-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP3 transfected K-562 cells.



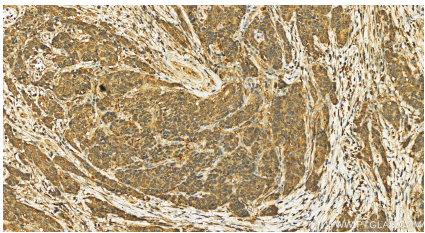
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 12490-1-AP (USP3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12490-1-AP (USP3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-USP3 (IP:12490-1-AP, 4ug; Detection:12490-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 12490-1-AP (USP3 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).