

For Research Use Only

USP14 Polyclonal antibody

Catalog Number: 14517-1-AP

Featured Product

16 Publications



Basic Information

Catalog Number:

14517-1-AP

Size:

150ul, Concentration: 300 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5979

GenBank Accession Number:

BC003556

GeneID (NCBI):

9097

UNIPROT ID:

P54578

Full Name:

ubiquitin specific peptidase 14 (tRNA-guanine transglycosylase)

Calculated MW:

54 kDa

Observed MW:

52-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:18000

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

IF 1:10-1:100

Applications

Tested Applications:

WB, IP, IF, FC, ELISA

Cited Applications:

WB, IP, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig

Positive Controls:

WB : DU 145 cells, HeLa cells, mouse heart tissue, HEK-293T cells, HEK-293 cells, SKOV-3 cells, Neuro-2a cells

IP : mouse liver tissue,

IF : HepG2 cells,

Background Information

USP14 (Ubiquitin carboxyl-terminal hydrolase 14) is also named as TGT and belongs to the peptidase C19 family. Mammalian USP14 is unique among known UBP enzymes in that it is activated catalytically upon specific association with the 26S proteasome. USP14 inhibition accelerated the degradation of oxidized proteins and enhanced resistance to oxidative stress. This protein has a 45-kDa catalytic domain (PMID:16211010).

Notable Publications

Author	Pubmed ID	Journal	Application
Ying Fu	30296012	Cancer Med	WB,IHC
Jill E Hunter	36240066	Biochem J	WB
Sheng-Li Ming	34822318	Autophagy	WB,IF,IP

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

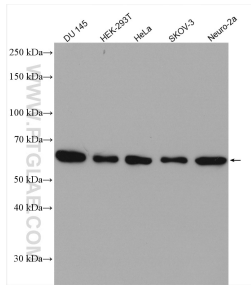
For technical support and original validation data for this product please contact:

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

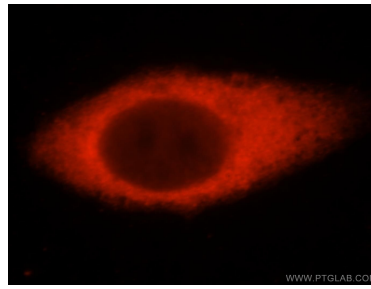
E: proteintech@ptglab.com
W: ptglab.com

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

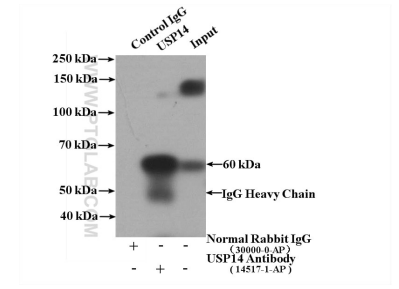
Selected Validation Data



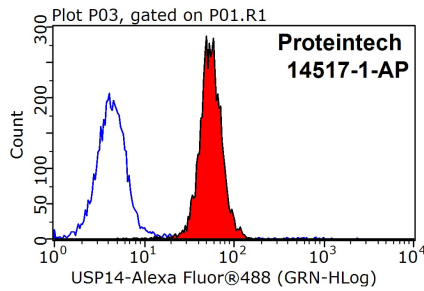
Various lysates were subjected to SDS PAGE followed by western blot with 14517-1-AP (USP14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



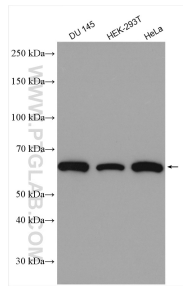
Immunofluorescent analysis of HepG2 cells, using USP14 antibody 14517-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



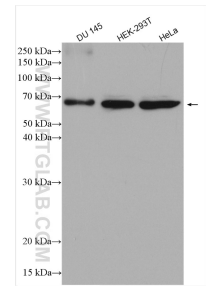
IP result of anti-USP14 (IP:14517-1-AP, 4ug; Detection:14517-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



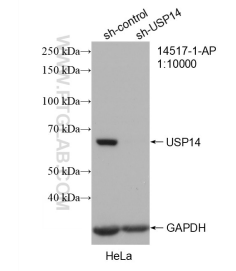
1X10⁶ HepG2 cells were stained with 0.2ug USP14 antibody (14517-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Various lysates were subjected to SDS PAGE followed by western blot with 14517-1-AP (USP14 antibody) at dilution of 1:9000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 14517-1-AP (USP14 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



WB result of USP14 antibody (14517-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-USP14 transfected HeLa cells.