

USP14

Polyclonal ANTIBODY

Catalog Number: 14517-1-AP

Featured Product

4 Publications

Basic Information

Catalog Number:
14517-1-AP

Size:
20 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AC5979

GenBank Accession Number:
BC003556

GeneID (NCBI):
9097

Full Name:
ubiquitin specific peptidase 14 (tRNA-guanine
transglycosylase)

Calculated MW:
54 kDa

Observed MW:
52-60 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IF 1:10-1:100

Applications

Tested Applications:
FC, IF, IP, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
human,mouse,rat

Cited Species:
human

Positive Controls:

WB : DU 145 cells; HeLa cells, mouse heart tissue,
HEK-293T 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 (PMD:16211010).

Notable Publications

Author	Pubmed ID	Journal	Application
Ying Fu	30296012	Cancer Med	WB,IHC
Baozhu Zhang	28509417	Thorac Cancer	WB,IHC
Bing Liu	31474315	Pathol Res Pract	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

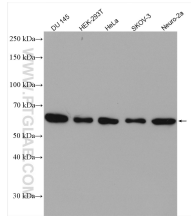
For technical support and original validation data for this product please contact:

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

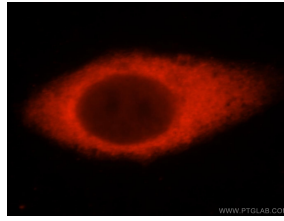
E: proteintech@ptglab.com
W: ptglab.com

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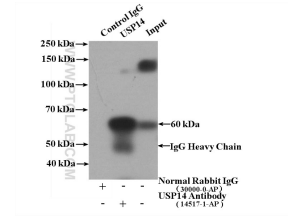
Selected Validation Data



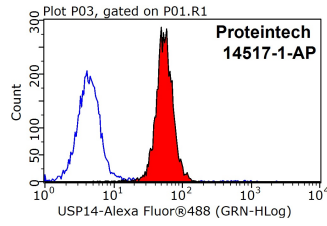
Various lysates were subjected to SDS PAGE followed by western blot with 14517-1-AP (USP14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



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.