

For Research Use Only

USP1 Monoclonal antibody

Catalog Number: 66069-1-Ig

Featured Product

2 Publications



Basic Information

Catalog Number:

66069-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG5904

GenBank Accession Number:

BC050525

GeneID (NCBI):

7398

UNIPROT ID:

O94782

Full Name:

ubiquitin specific peptidase 1

Calculated MW:

88 kDa

Observed MW:

100 kDa

Purification Method:

Protein A purification

CloneNo.:

1C10H6

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, monkey

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 : HepG2 cells, HeLa cells, HSC-T6 cells, NIH/3T3 cells

IHC : human cervical cancer tissue,

Background Information

USP1(Ubiquitin carboxyl-terminal hydrolase 1) is a negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2. It is also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA. This protein, which consists of 785 amino acids with a deduced molecular mass of 88.2 kDa, possesses His and Cys domains that are highly conserved in all members of the ubiquitin-specific processing (UBP) family of proteases (PMID:9806842). The USP1 enzyme can undergo autocleavage, resulting in a 100 kDa N-terminal fragment and a 14 kDa C-terminal fragment (PMID:18082604).

Notable Publications

Author	Pubmed ID	Journal	Application
Saiyan Bian	39009653	Cell Death Differ	IF
Yunyun Zhai	38376196	J Virol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

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

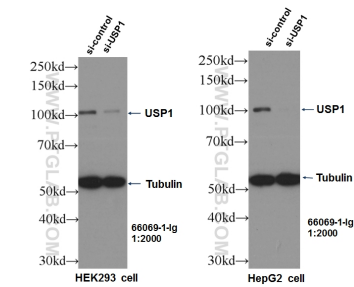
T: 4006900926

E: Proteintech-CN@ptglab.com

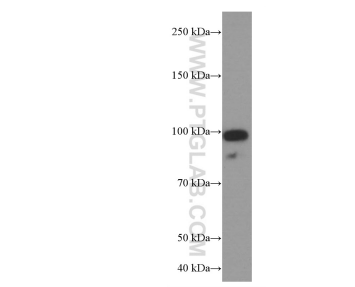
W: ptgcn.com

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

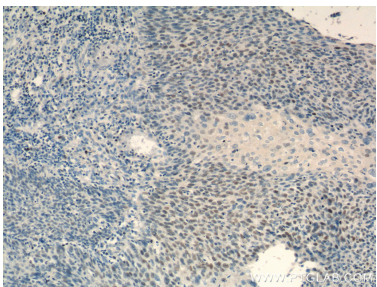
Selected Validation Data



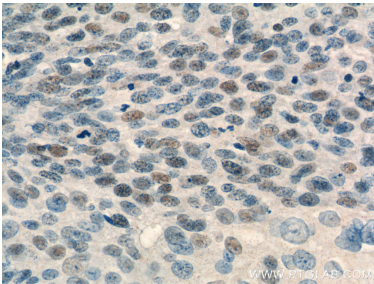
WB result of USP1 antibody (66069-1-Ig, 1:2000) with si-Control and si-USP1 transfected HepG2 & HEK293 cells.



HepG2 cells were subjected to SDS PAGE followed by western blot with 66069-1-Ig (USP1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66069-1-Ig (USP1 Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66069-1-Ig (USP1 Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 66069-1-Ig (USP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



HSC-T6 cells were subjected to SDS PAGE followed by western blot with 66069-1-Ig (USP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.