For Research Use Only

USP1 Monoclonal antibody

Catalog Number:66069-1-Ig Featured Product 2 Publications

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Basic Information

Catalog Number:
66069-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

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

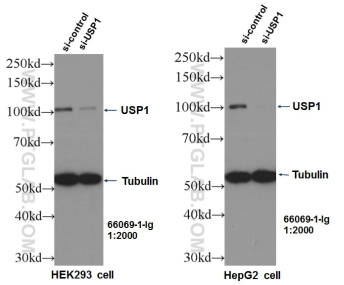
Storage

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

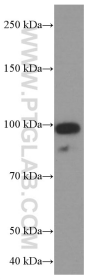
***** 20ul sizes contain 0.1% BSA**

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

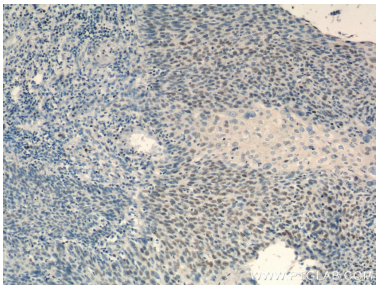
Selected Validation Data



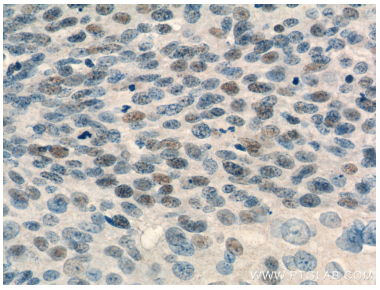
WB result of USP1 antibody (66069-1-Ig, 1:2000) with si-Control and si-USP1 transfected HepG2 & HEK293 cells.



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.

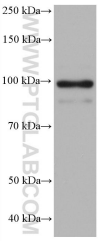


Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66069-1-Ig (USP1 Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.