

For Research Use Only

# Phospho-P53 (Ser15) Monoclonal antibody

Catalog Number: 67826-1-Ig

15 Publications



## Basic Information

Catalog Number:

67826-1-Ig

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

BC003596

GeneID (NCBI):

7157

UNIPROT ID:

P04637

Full Name:

tumor protein p53

Calculated MW:

44 kDa

Observed MW:

53 kDa

Purification Method:

Protein A purification

CloneNo.:

1H6G1

Recommended Dilutions:

WB 1:1000-1:6000

IF/ICC 1:400-1:1600

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat, pig

Positive Controls:

WB : Calyculin A treated HT-29 cells, HT-29 cells, HEK-293 cells, HEK-293t cells, Etoposide treated HT-29 cells, Calyculin A treated HEK-293 cells, UV treated HEK-293T cells

IF/ICC : etoposide treated HT-29 cells,

## Background Information

TP53, also known as P53 and NY-CO-13, belongs to the p53 family and has 9 isoforms. In SDS-Page, the observed molecular weight is about 53 kDa. TP53 acts as a tumor suppressor in many tumor types, including growth arrest or apoptosis depending on the physiological circumstances and cell types. It is involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. TP53 Localizes in the nucleus in most cells but found in the cytoplasm in some cells. (PMID: 26166714; PMID: 25225161)

## Notable Publications

Author	Pubmed ID	Journal	Application
Ting Wang	33927626	Front Pharmacol	WB
Meiqi Zhang	39718615	Naunyn Schmiedebergs Arch Pharmacol	WB
Lixian Ding	38988047	Cancer Med	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

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

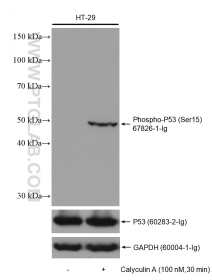
For technical support and original validation data for this product please contact:

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

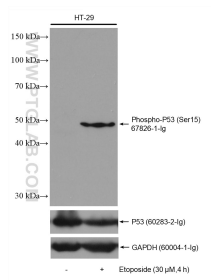
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

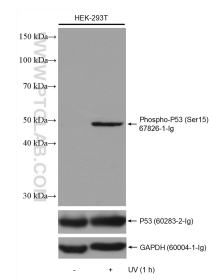
## Selected Validation Data



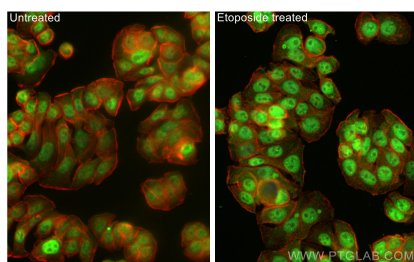
Non-treated and Calyculin A treated HT-29 cells were subjected to SDS PAGE followed by western blot with 67826-1-Ig (Phospho-P53 (Ser15) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH and P53 antibody subsequently.



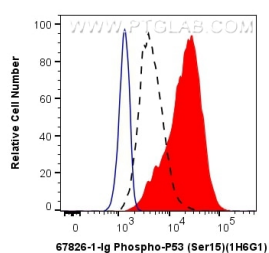
Non-treated and Etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 67826-1-Ig (Phospho-P53 (Ser15) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH and P53 antibody subsequently.



Non-treated and UV treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 67826-1-Ig (Phospho-P53 (Ser15) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH and P53 antibody subsequently.



Immunofluorescent analysis of (4% PFA) fixed etoposide treated HT-29 cells using Phospho-P53 (Ser15) antibody (67826-1-Ig, Clone: 1H6G1) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



$1 \times 10^6$  HT-29 cells untreated (dashed line) or treated with UV (red) were intracellularly stained with 0.13  $\mu$ g Anti-Human Phospho-P53 (Ser15) (67826-1-Ig, Clone: 1H6G1) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.13  $\mu$ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.