

For Research Use Only

Phospho-P53 (Ser15) Polyclonal antibody



Catalog Number: 28961-1-AP

21 Publications

Basic Information

Catalog Number:

28961-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

WB : etoposide treated HT-29 cells,

IF : HT-29 cells, etoposide treated HT-29 cells

Background Information

The p53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. Activation of p53 can lead to either cell cycle arrest and DNA repair or apoptosis. DNA damage induces phosphorylation of p53 at Ser15 and Ser20 and leads to a reduced interaction between p53 and its negative regulator, the oncoprotein MDM2. p53 can be phosphorylated by ATM, ATR, and DNA-PK at Ser15 and Ser37. Phosphorylation impairs the ability of MDM2 to bind p53, promoting both the accumulation and activation of p53 in response to DNA damage.

Notable Publications

Author	Pubmed ID	Journal	Application
Tina Aumer	36089606	Clin Epigenetics	WB
Chieh-Hsin Chen	34708319	Apoptosis	WB
Mengqi Cui	34602553	Biol Pharm Bull	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:

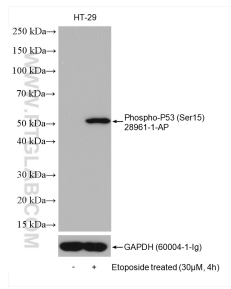
T: 4006900926

E: Proteintech-CN@ptglab.com

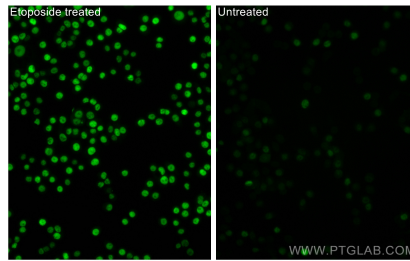
W: ptgcn.com

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Selected Validation Data



Non-treated HT-29 and etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 28961-1-AP (Phospho-P53(Ser15) antibody) at dilution of 1:2000 incubated at 4°C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed non-treated HT-29 and etoposide treated HT-29 cells using Phospho-P53 (Ser15) antibody (28961-1-AP) at dilution of 1:100 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).