For Research Use Only

Phospho-P53 (Ser15) Recombinant antibody

Catalog Number:80195-1-RR 2 Publications

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Basic Information

Catalog Number:
80195-1-RR

Concentration:
250 ug/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:
Protein A purification

CloneNo.:
2J21

Recommended Dilutions:
WB 1:2000-1:10000
IF/ICC 1:250-1:1000

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human

Positive Controls:

WB : etoposide treated HT-29 cells, UV treated A431 cells

IF/ICC : HT-29 cells,

Background Information

P53 is a 53 kDa protein that is activated in response to alteration of normal cell homeostasis, including DNA damage, nutrient starvation, heat shock, virus infection, pH change, hypoxia, and oncogene activation. P53 maintains genetic stability by regulating different processes, such as cell-cycle arrest, DNA synthesis and repair, programmed cell death, and energy metabolism. In non-stressed conditions these proteins bind p53, ubiquitylate it and target it for degradation by the proteasome. In stressed conditions the function of the MdM2-MdM4 complex is blocked by phosphorylation, protein-binding events and/or enhanced degradation. (PMID: 19935675, PMID: 24379683)

Notable Publications

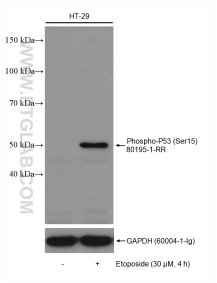
Author	Pubmed ID	Journal	Application
Andreas Müller	37174691	Cells	
Xiao Cui	36690696	Sci Rep	WB

Storage

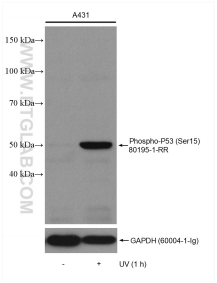
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

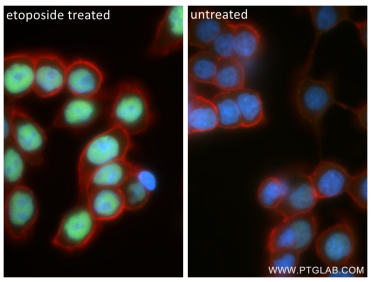
Selected Validation Data



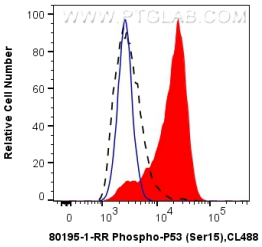
Non-treated and etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 80195-1-RR (Phospho-P53 (Ser15) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Non-treated and UV treated A431 cells were subjected to SDS PAGE followed by western blot with 80195-1-RR (Phospho-P53 (Ser15) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed HT-29 cells using Phospho-P53 (Ser15) antibody (80195-1-RR, Clone: 2J21) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1X10^6 A431 cells untreated (dashed line) or treated with UV (red) were intracellularly stained with 0.13 ug Anti-Human Phospho-P53 (Ser15) (80195-1-RR, Clone:2J21) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.13 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.