

For Research Use Only

# Phospho-P53 (Ser15) Recombinant antibody



Catalog Number: 80195-1-RR **2 Publications**

## Basic Information

<b>Catalog Number:</b> 80195-1-RR	<b>GenBank Accession Number:</b> BC003596	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 250 µg/ml	<b>GeneID (NCBI):</b> 7157	<b>CloneNo.:</b> 2J21
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04637	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> tumor protein p53	
	<b>Calculated MW:</b> 44 kDa	
	<b>Observed MW:</b> 53 kDa	

## Applications

<b>Tested Applications:</b> FC, IF/ICC, WB, ELISA	<b>Positive Controls:</b> WB : etoposide treated HT-29 cells, UV treated A431 cells IF : etoposide treated HT-29 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	

## 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

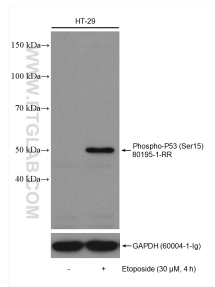
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

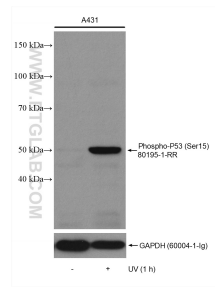
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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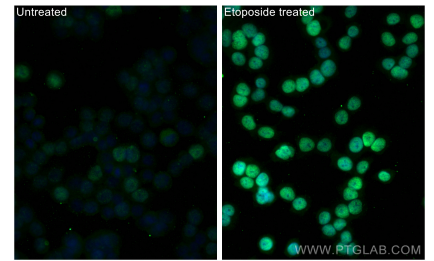
## Selected Validation Data



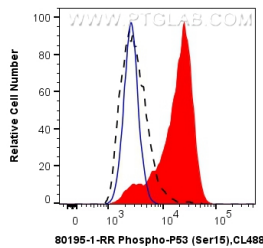
Non-treated and etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 80195-1-RR (Phospho-P53 (Ser15) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



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 (-20°C Ethanol) fixed etoposide treated HT-29 cells and non-treated HT-29 cells using Phospho-P53 (Ser15) antibody (80195-1-RR, Clone: 2J21) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> 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.