

For Research Use Only

# Phospho-P53 (Ser15) Recombinant antibody, PBS Only

Catalog Number: 80195-1-PBS



## Basic Information

Catalog Number:	80195-1-PBS	GenBank Accession Number:	BC003596	Purification Method:	Protein A purification
Concentration:	1mg/ml	GeneID (NCBI):	7157	CloneNo.:	2J21
Source:	Rabbit	UNIPROT ID:	P04637		
Isotype:	IgG	Full Name:	tumor protein p53		
		Calculated MW:	44 kDa		
		Observed MW:	53 kDa		

## Applications

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

**Species Specificity:**  
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)

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
**Storage Buffer:**  
PBS only, pH7.3

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

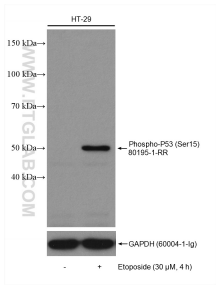
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

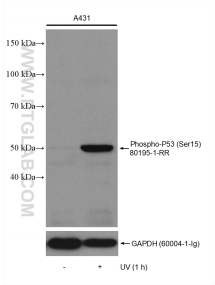
W: [ptgcn.com](http://ptgcn.com)

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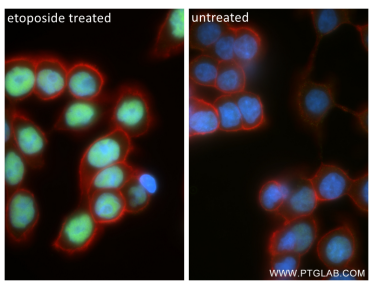
Selected Validation Data



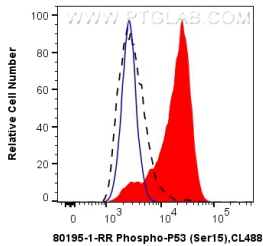
Non-treated and etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 80195-1-RR (Phospho-P53 (Ser15) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control. This data was developed using the same antibody clone with 80195-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 80195-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 80195-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 80195-1-PBS in a different storage buffer formulation.

