

For Research Use Only

# Phospho-P53 (Ser46) Recombinant monoclonal antibody, PBS Only

Catalog Number:80077-9-PBS



## Basic Information

**Catalog Number:**

80077-9-PBS

**Size:**

100ug , Concentration: 1 mg/ml by Nanodrop;

**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.:**

250307A3

## Applications

**Tested Applications:**

WB, Indirect ELISA

**Species Specificity:**

human

## 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. Phosphorylation of p53 at Ser46 regulates the ability of p53 to induce apoptosis. Homeodomain-interacting protein kinase 2 (HIPK2) Phosphorylates Ser46 off p53 and p38 can phosphorylate this site .

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

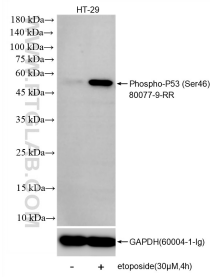
For technical support and original validation data for this product please contact:

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

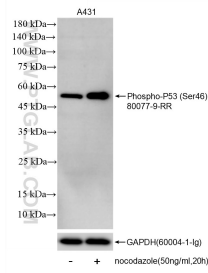
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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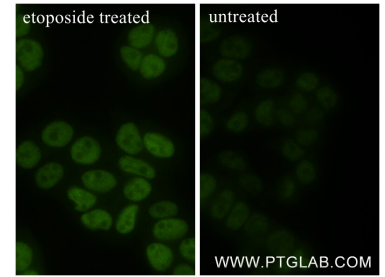
## Selected Validation Data



Non-treated HT-29 cells and etoposide treated HT-29 cells were subjected to SDS PAGE followed by western blot with 80077-9-RR (Phospho-P53 (Ser46) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 80077-9-PBS in a different storage buffer formulation.



Non-treated A431 cells and nocodazole treated A431 cells were subjected to SDS PAGE followed by western blot with 80077-9-RR (Phospho-P53 (Ser46) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 80077-9-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed etoposide treated HT-29 cells using Phospho-P53 (Ser46) antibody (80077-9-RR, Clone: 250307A3 ) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 80077-9-PBS in a different storage buffer formulation.