

For Research Use Only

# Phospho-P53 (Ser392) Polyclonal antibody



Catalog Number: 28963-1-AP

1 Publications

## Basic Information

**Catalog Number:**

28963-1-AP

**Size:**

260 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 1:5000-1:50000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

Human

**Cited Species:**

human

**Positive Controls:**

WB: λ phosphatase treated HEK-293 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. Phosphorylated at Ser-315 and Ser-392 by CDK2 in response to DNA-damage. (PMID: 19935675, PMID: 24379683)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jingwen Tan	36208777	Chem Biol Interact	WB

## Storage

**Storage:**

Store at -20°C.

**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:

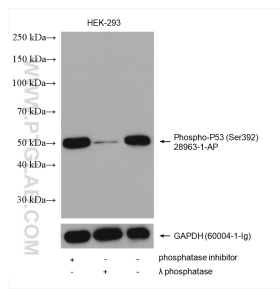
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Non-treated HEK-293, phosphatase inhibitor treated and  $\lambda$  phosphatase treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 28963-1-AP (Phospho-P53 (Ser392) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.