

# P53

## Polyclonal ANTIBODY

Catalog Number: 10442-1-AP

Featured Product

273 Publications

### Basic Information

**Catalog Number:**  
10442-1-AP

**Size:**  
43 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG0698

**GenBank Accession Number:**  
BC003596

**GeneID (NCBI):**  
7157

**Full Name:**  
tumor protein p53

**Calculated MW:**  
44 kDa

**Observed MW:**  
53 kDa

**Recommended Dilutions:**

WB 1:1000-1:6000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IF 1:50-1:500

### Applications

**Tested Applications:**

IF, IP, WB, ELISA

**Cited Applications:**

ChIP, CoIP, IF, IP, WB

**Species Specificity:**

human, rat, mouse

**Cited Species:**

Artemia, Artemia sinica, human, pig, rat, swine

**Positive Controls:**

WB : SMMC-7721 cells; A431 cells, MCF-7 cells, mouse spleen tissue, rat colon tissue, mouse colon tissue

IP : A431 cells;

IF : HepG2 cells;

### Background Information

TP53, also known as P53 and NY-CO-13, belongs to the p53 family and has 9 isoforms. In SDS-Page, the observed molecular weight is about 53 kDa. TP53 acts as a tumor suppressor in many tumor types, including growth arrest or apoptosis depending on the physiological circumstances and cell types. It is involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. TP53 Localizes in the nucleus in most cells but found in the cytoplasm in some cells. (PMID: 26166714; PMID: 25225161)

### Notable Publications

Author	Pubmed ID	Journal	Application
Fabeo Liu	26309161	Oncotarget	WB
Xue Zhu	28960612	J Biochem Mol Toxicol	WB
Wei Zhao	29212181	Oncotarget	WB

### Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

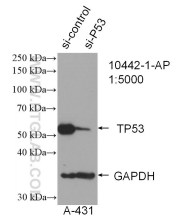
For technical support and original validation data for this product please contact:

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

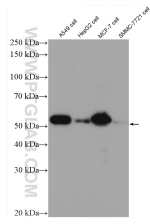
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

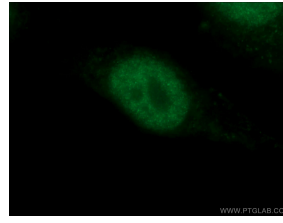
## Selected Validation Data



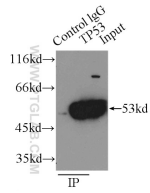
WB result of P53 antibody (10442-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P53 transfected A431 cells



Various lysates were subjected to SDS PAGE followed by western blot with 10442-1-AP (P53 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10442-1-AP (P53 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-P53 (IP:10442-1-AP; 4ug; Detection: 10442-1-AP 1:1000) with A431 cells lysate 3000ug.