

For Research Use Only

# P53 Polyclonal antibody

Catalog Number: 10442-1-AP

Featured Product

842 Publications



## Basic Information

Catalog Number:

10442-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0698

GenBank Accession Number:

BC003596

GeneID (NCBI):

7157

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

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:50-1:500

## Applications

Tested Applications:

IF, IP, WB, ELISA

Cited Applications:

ChIP, CoIP, IF, IHC, IP, RIP, WB

Species Specificity:

human, rat

Cited Species:

human, goat, chicken, rat, sheep, zebrafish, pig,

Artemia sinica

Positive Controls:

WB: A431 cells, SMMC-7721 cells, MCF-7 cells, rat colon tissue, HEK-293 cells, HT-29 cells, HepG2 cells

IP: A431 cells,

IF: HepG2 cells, A431 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
Sushan Yang	36180831	Cell Mol Biol Lett	WB
Xiaoyan Liu	31574948	Int J Mol Sci	WB
Shanshan Hu	33134183	Front Oncol	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

\*\*\* 20ul sizes contain 0.1% BSA

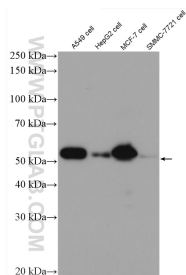
For technical support and original validation data for this product please contact:

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

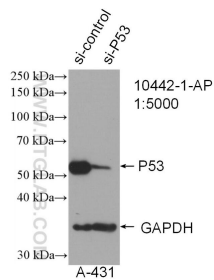
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

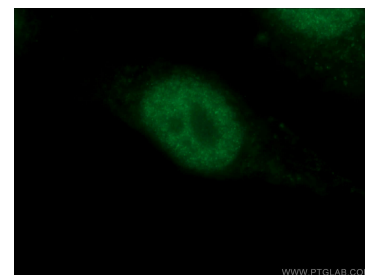
## Selected Validation Data



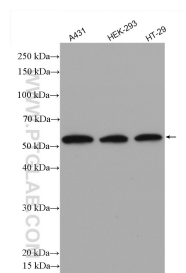
Various lysates were subjected to SDS PAGE followed by western blot with 10442-1-AP (P53 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



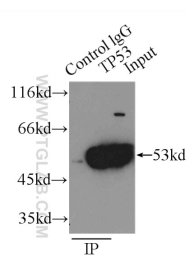
WB result of P53 antibody (10442-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P53 transfected A431 cells.



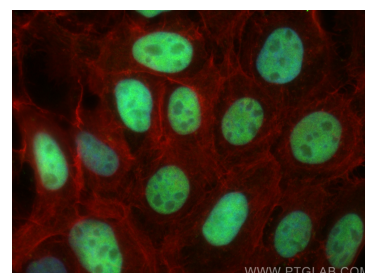
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10442-1-AP (P53 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 10442-1-AP (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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



Immunofluorescent analysis of (4% PFA) fixed A431 cells using P53 antibody (10442-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).