

For Research Use Only

# P53 Monoclonal antibody

Catalog Number: 60283-2-Ig

Featured Product

182 Publications



## Basic Information

Catalog Number:

60283-2-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG0698

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.:

6C4B6

Recommended Dilutions:

WB 1:5000-1:20000

IHC 1:1600-1:6400

IF 1:200-1:800

## Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IP, IF, IHC, CoIP

Species Specificity:

Human, rat, mouse

Cited Species:

human, rat, rabbit, zebrafish, pig, canine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : Neuro-2a cells, A431 cells, HSC-T6 cells, ROS1728 cells, A375 cells, COLO 320 cells, mouse colon tissue, rat thymus tissue, HaCaT cells, HT-29 cells, HEK-293 cells, Sp2/0

IHC : human colon cancer tissue, human lung cancer tissue, human breast cancer tissue, human stomach cancer tissue, human tonsillitis tissue, human gliomas tissue, human ovary tumor tissue

IF : 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 |
|--------------|-----------|----------------------|-------------|
| Jie Liu      | 36238648  | Oxid Med Cell Longev | WB          |
| Xiaofang Zhu | 36174712  | Life Sci             | WB          |
| Yingjie Qing | 34603598  | Oxid Med Cell Longev | 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

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

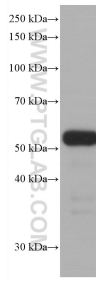
T: 4006900926

E: Proteintech-CN@ptglab.com

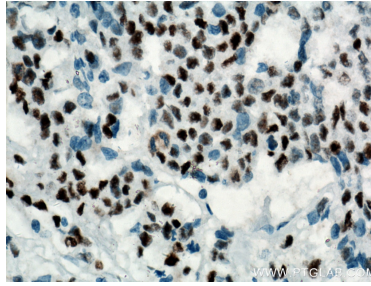
W: ptgcn.com

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

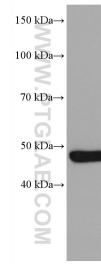
## Selected Validation Data



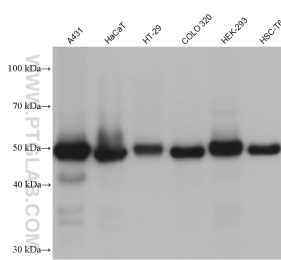
A431 cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



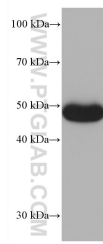
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60283-2-Ig (P53 antibody) at dilution of 1:3200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



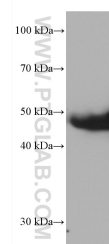
Neuro-2a cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



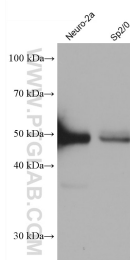
Various lysates were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



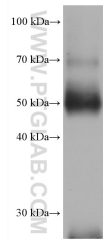
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



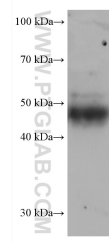
ROS1728 cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



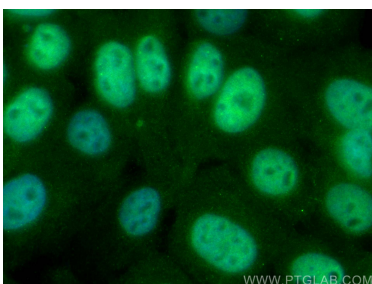
Various lysates were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



mouse colon tissue were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



rat thymus tissue were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using P53 antibody (60283-2-Ig, Clone: 6C4B6 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).