

For Research Use Only

# P53 Monoclonal antibody

Catalog Number: 60283-2-Ig

Featured Product

188 Publications



## Basic Information

<b>Catalog Number:</b> 60283-2-Ig	<b>GenBank Accession Number:</b> BC003596	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7157	<b>CloneNo.:</b> 6C4B6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P04637	<b>Recommended Dilutions:</b> WB 1:5000-1:20000 IHC 1:1600-1:6400 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> tumor protein p53	
<b>Immunogen Catalog Number:</b> AG0698	<b>Calculated MW:</b> 44 kDa	
	<b>Observed MW:</b> 53 kDa	

## Applications

**Tested Applications:**  
WB, IF, IHC, 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

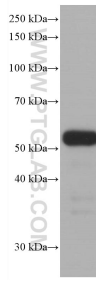
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

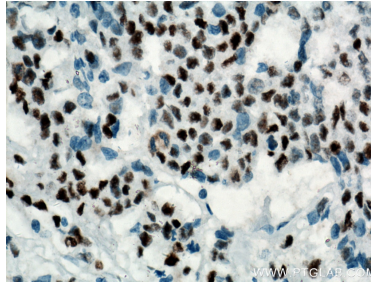
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data

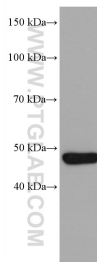


A431 cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

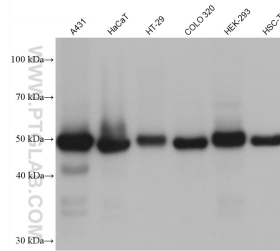


Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60283-2-Ig (P53 antibody) at dilution of 1:3200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

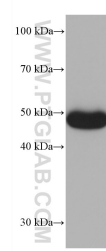
Immunofluorescent analysis of (4% PFA) fixed A431 cells using P53 antibody (60283-2-Ig, Clone: 6C4B6 ) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004 ).



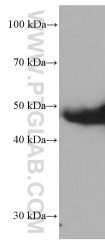
Neuro-2a cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



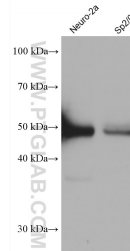
Various lysates were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



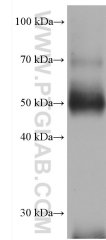
HSC-T6 cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



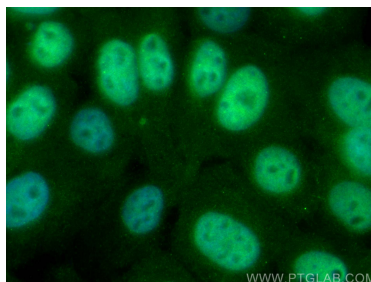
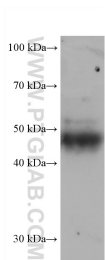
ROS1728 cells were subjected to SDS PAGE followed by western blot with 60283-2-Ig (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).