

For Research Use Only

# P53 Recombinant antibody

Catalog Number: 80077-1-RR

Featured Product

5 Publications



## Basic Information

<b>Catalog Number:</b> 80077-1-RR	<b>GenBank Accession Number:</b> BC003596	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7157	<b>CloneNo.:</b> 2H13
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04637	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> tumor protein p53	
	<b>Calculated MW:</b> 44 kDa	
	<b>Observed MW:</b> 53 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, FC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF	<b>WB :</b> MCF-7 cells, COLO 320 cells, SW480 cells, MDA-MB-231 cells, HCT 116 cells, A431 cells, HT-29 cells, ROS1728 cells, HSC-T6 cells, ATDC-5 cells, Neuro-2a cells, zebrafish tissue, HT-29cells
<b>Species Specificity:</b> Human, mouse, rat, zebrafish	<b>IF :</b> HepG2 cells, A431 cells
<b>Cited Species:</b> human, mouse, zebrafish	

## 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
Jiaoyang Wei	38331007	Reprod Toxicol	WB
YuanYuan Jing	38252267	Cell Biol Toxicol	WB
Ke Yang	37711030	Oncol Rep	WB

## Storage

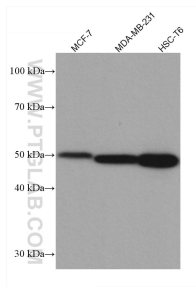
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

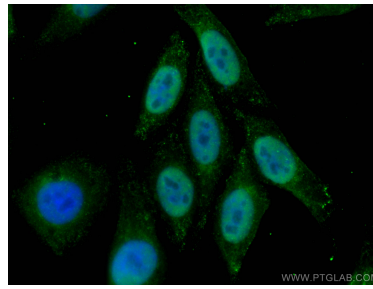
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

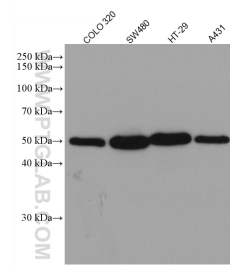
## Selected Validation Data



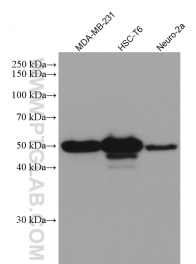
Various lysates were subjected to SDS PAGE followed by western blot with 80077-1-RR (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



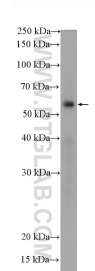
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using P53 antibody (80077-1-RR, Clone: 2H13) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



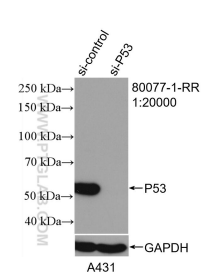
Various lysates were subjected to SDS PAGE followed by western blot with 80077-1-RR (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



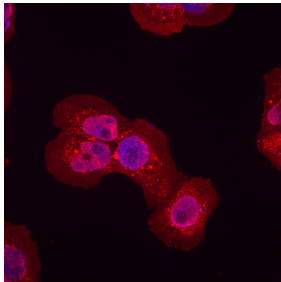
Various lysates were subjected to SDS PAGE followed by western blot with 80077-1-RR (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



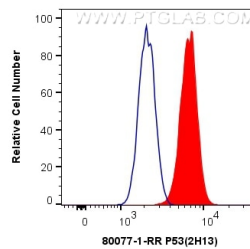
zebrafish tissue were subjected to SDS PAGE followed by western blot with 80077-1-RR (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of P53 antibody (80077-1-RR; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P53 transfected A431 cells.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using P53 antibody (80077-1-RR, Clone: 2H13) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.5 ug Anti-Human P53 (80077-1-RR, Clone: 2H13) (red) labeled with FlexAble CoraLite®488 Antibody Labeling Kit for Rabbit IgG (KFA001), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).