

For Research Use Only

P53 Recombinant antibody

Catalog Number: 80077-1-RR

Featured Product

6 Publications



Basic Information

Catalog Number:

80077-1-RR

Size:

100ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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.:

2H13

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IF

Species Specificity:

human, zebrafish

Cited Species:

human, mouse, zebrafish

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 : COLO 320 cells, A431 cells, HT-29 cells, ROS1728 cells, SW480 cells, zebrafish tissue, HT-29 cells

IHC : human colon cancer tissue,

IF/ICC : 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
Xing-Nian Zhou	38617450	World J Gastroenterol	IF, WB
Jiaoyang Wei	38331007	Reprod Toxicol	WB
YuanYuan Jing	38252267	Cell Biol Toxicol	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

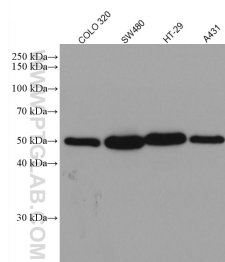
For technical support and original validation data for this product please contact:

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

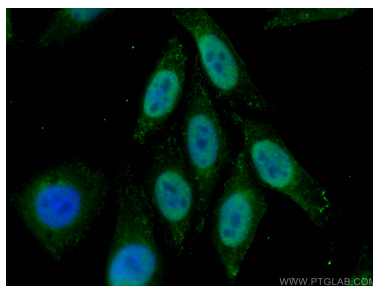
E: proteintech@ptglab.com
W: ptglab.com

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

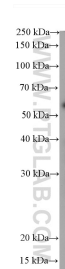
Selected Validation Data



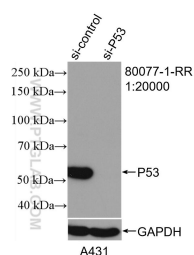
Various lysates were subjected to SDS PAGE followed by western blot with 80077-1-RR (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



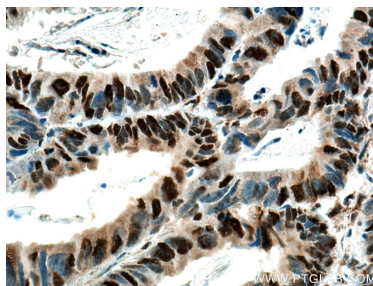
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using P53 antibody (80077-1-RR, Clone: 2H13) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



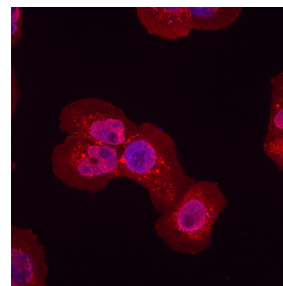
zebrafish tissue were subjected to SDS PAGE followed by western blot with 80077-1-RR (P53 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



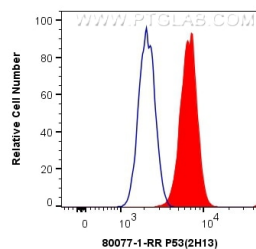
WB result of P53 antibody (80077-1-RR; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P53 transfected A431 cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80077-1-RR (P53 antibody) at dilution of 1:200 (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 (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).



1X10⁶ 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).