

# [KO Validated] p53 Rabbit pAb

Catalog No.: A21629 **KO** Validated

## Basic Information

**Observed MW**

53kDa

**Calculated MW**

44kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC, IP

**Cross-Reactivity**

Human

## Background

This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277).

## Recommended Dilutions

**WB** 1:500 - 1:1000**IHC-P** 1:100 - 1:500**IF/ICC** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

7157

**Swiss Prot**

P04637

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 1-393 of human p53. (NP\_000537.3).

**Synonyms**

P53; BCC7; LFS1; BMFS5; TRP53; 53

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

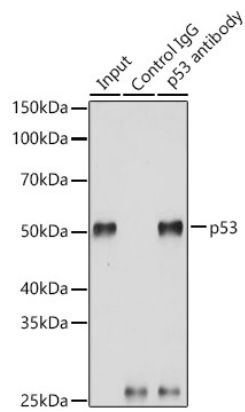
Affinity purification

**Storage**

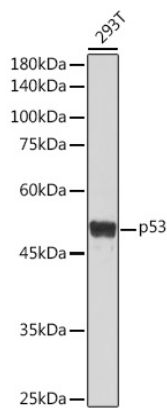
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

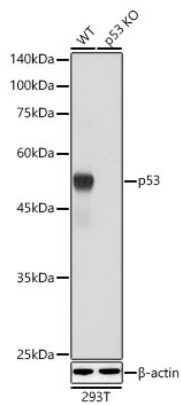
Validation Data



Immunoprecipitation analysis of 200 µg extracts of 293T cells using 3 µg p53 antibody (A21629). Western blot was performed from the immunoprecipitate using p53 antibody (A21629) at a dilution of 1:3000.



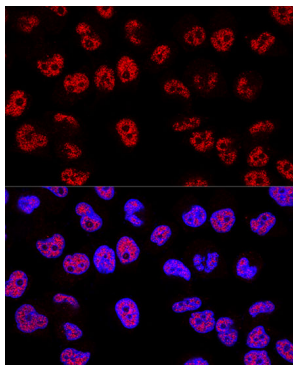
Western blot analysis of lysates from 293T cells, using p53 Rabbit pAb (A21629) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



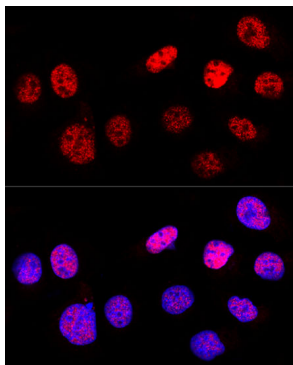
Western blot analysis of lysates from wild type (WT) and p53 knockout (KO) 293T cells using [KO Validated] p53 Rabbit pAb (A21629) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020) Exposure time: 1 s.

## Validation Data

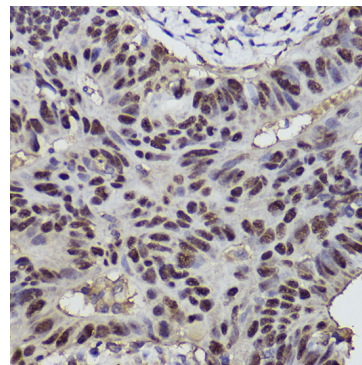
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Confocal immunofluorescence analysis of HeLa cells using [KO Validated] p53 Rabbit pAb (A21629) at dilution of 1:200. Blue: DAPI for nuclear staining.



Confocal immunofluorescence analysis of U-2 OS cells using [KO Validated] p53 Rabbit pAb (A21629) at dilution of 1:200. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of p53 in paraffin-embedded human colon carcinoma using [KO Validated] p53 Rabbit pAb (A21629) at dilution of 1:300 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.