

A21629

Leader in Biomolecular Solutions for Life Science



[KO Validated] p53 Rabbit pAb

Catalog No.: A21629

KO Validated

Basic Information

Observed MW

53kDa

Calculated MW

44kDa

Category

Polyclonal Antibody

Applications

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

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

ELISA Recommended starting
concentration is 1
µg/mL. Please optimize
the concentration
based on your specific
assay requirements.

Immunogen Information

Gene ID

7157

Swiss Prot

P04637

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

P53; BCC7; LFS1; BMFS5; TRP53; 53

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

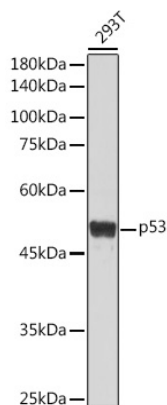
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

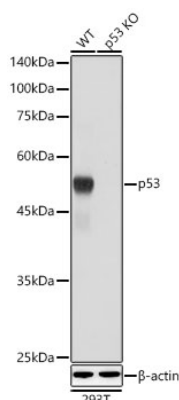


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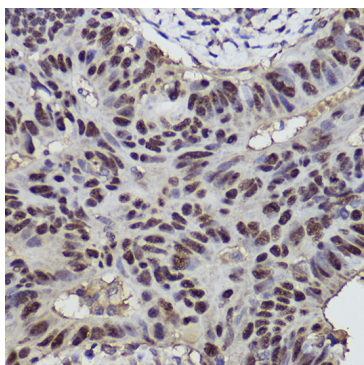
Validation Data



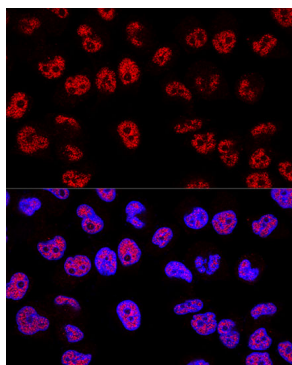
Western blot analysis of lysates from 293T cells, using p53 Rabbit pAb (A21629) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).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



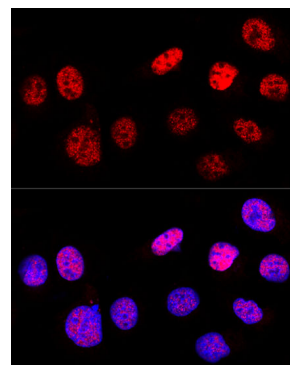
Western blot analysis of lysates from wild type (WT) and p53 knockout (KO) 293T cells using [KO Validated] p53 Rabbit pAb (A21629) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.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



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using [KO Validated] p53 Rabbit pAb (A21629) at dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

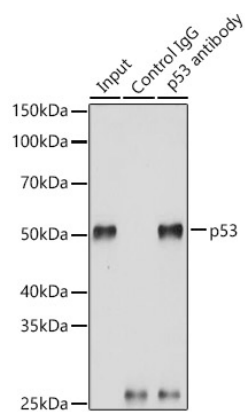


Confocal immunofluorescence analysis of HeLa cells using [KO Validated] p53 Rabbit pAb (A21629) at dilution of 1:200. Blue; DAPI for nuclear staining.



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.

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.