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[KO Validated] p53 Rabbit mAb

Catalog No.: A28493 KO Validated Recombinant

Basic Information

Observed MW
53 kDa

Calculated MW
24-44 kDa

Category
Primary antibody

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

Cross-Reactivity
Human

CloneNo number
ARC74241

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.

Recommended Dilutions

WB	1:2000 - 1:5000
IP	0.2 μg-4 μg antibody for 200 μg-400 μg extracts of whole cells
IF/ICC	1:200 - 1:1000
IHC-P	1:400 -1600
ChIP	2μg antibody for 5μg-10μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃

Contact

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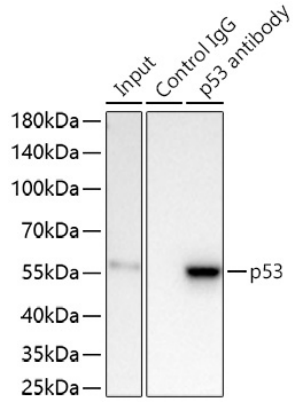
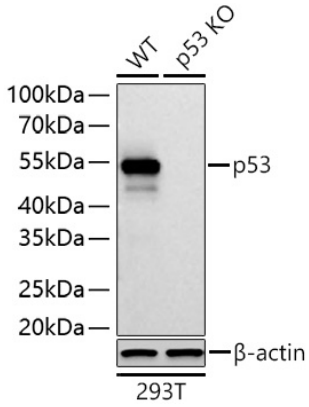
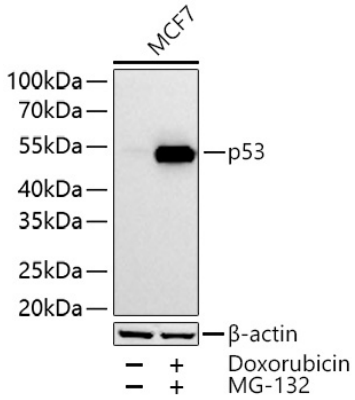
Validation Data



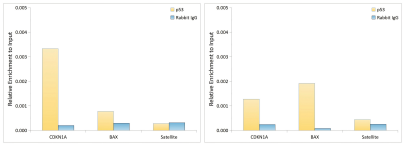
Immunoprecipitation of p53 from 300 µg extracts of 293T cells was performed using 0.2 µg of [KO Validated] p53 Rabbit mAb(A28493). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] p53 Rabbit mAb(A28493) at a dilution of 1:10000.



Western blot analysis of lysates from wild type (WT) and p53 knockout (KO) 293T cells using [KO Validated] p53 Rabbit mAb (A28493) at 1:5000 dilution incubated overnight at 4℃.
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: 45 s.



Western blot analysis of lysates from MCF7 cells using [KO Validated] p53 Rabbit mAb (A28493) at 1:5000 dilution incubated overnight at 4℃. MCF7 cells were treated with doxorubicin(0.5 µM) at 37℃ for 24 hours, MG-132(5 µM) at 37℃ for 6 hours by co-treatment.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa cells(left) and HeLa cells treated dy UV (100 mJ/cm²,2h)(right), using 2 µg of [KO Validated] p53 Rabbit mAb (A28493) and Rabbit IgG isotype control(AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

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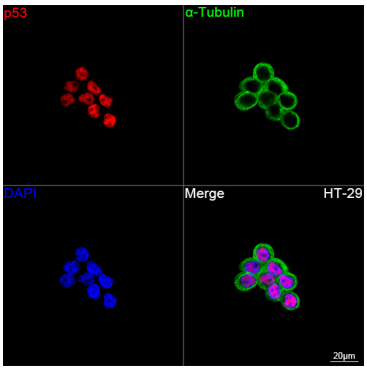
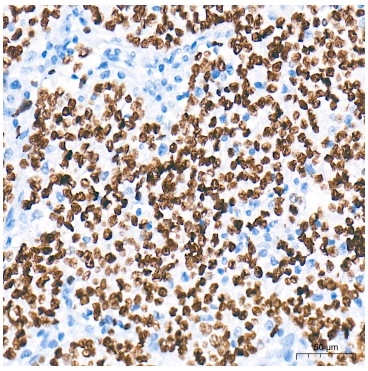
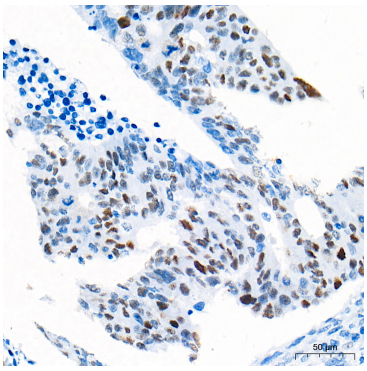
Validation Data



Confocal imaging of HT-29 cells using [KO Validated] p53 Rabbit mAb (A28493, dilution 1:600) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human ovarian serous carcinoma tissue using [KO Validated] p53 Rabbit mAb (A28493) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KO Validated] p53 Rabbit mAb (A28493) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.