

## Anti-p53 Polyclonal Antibody 2

## Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 53 kDa. Actual: 53 kDa.
Purification:	Protein A purified

## Applications

1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-P53 (wt-p53) Polyclonal Antibody, Unconjugated (TMAB-01320) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

2. Blank control (blue line): Hela (blue).

Primary Antibody (green line): Rabbit Anti-P53 (wt-p53) antibody (TMAB-01320),

Dilution: 1 µg/10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC

Dilution: 1 µg/test.

Protocol

The cells were fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. Sample:

Liver (Mouse) Lysate at 40 µg

Liver (Rat) Lysate at 40 µg

Primary: Anti-P53 (wt-p53) (TMAB-01320) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa

4. Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (P53 (wt-p53)) polyclonal Antibody, Unconjugated (TMAB-01320) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

5. Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (P53 (wt-p53)) polyclonal Antibody, Unconjugated (TMAB-01320) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

6. Sample:

MCF-7 (Human) Cell Lysate at 40 µg

DU145 (Human) Cell Lysate at 40 µg

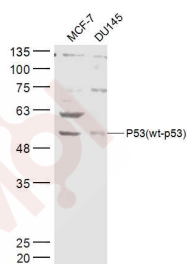
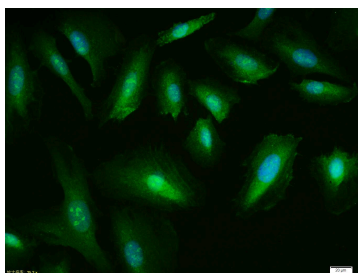
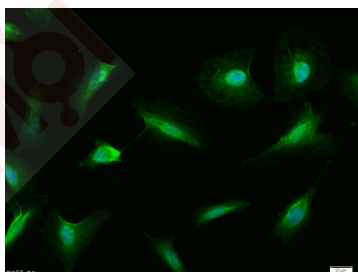
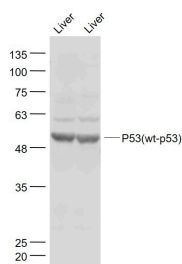
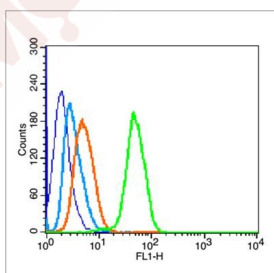
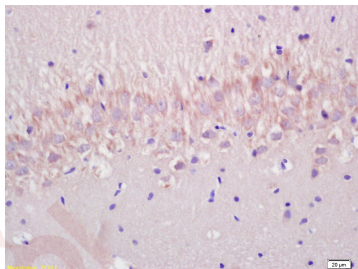
Verified Activity:

Primary: Anti-P53 (wt-p53) (TMAB-01320) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 53 kDa

Observed band size: 53 kDa



Application:

ICC/IF,WB

## A DRUG SCREENING EXPERT

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Recommended ICC/IF=1:100-500; WB=1:500-2000

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human P53

Antigen Species: Human

Gene ID: 7157

Uniprot ID: P04637

Biology Area: p53 pathway,p53 pathway,p53 Pathway,p53,p53,p53,Tumor Suppressors

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### Research 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 (PMIDs: 12032546, 20937277). [provided by RefSeq, Feb 2013].

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