

Anti-p53 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 43 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (Rat bladder); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (P53 protein (wt-p53)) Polyclonal Antibody, Unconjugated (TMAB-01319) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
 2. Paraformaldehyde-fixed, paraffin embedded (Rat esophageal); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (P53 protein (wt-p53)) Polyclonal Antibody, Unconjugated (TMAB-01319) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
 3. Paraformaldehyde-fixed, paraffin embedded (mouse esophageal); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (P53 protein (wt-p53)) Polyclonal Antibody, Unconjugated (TMAB-01319) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
- Verified Activity:
4. Sample: Liver (Mouse) Lysate at 40 µg
Primary: Anti-P53 protein (wt-p53)(TMAB-01319) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 43 kDa
Observed band size: 50 kDa
 5. Sample:
Brain (Rat) lysate at 30 µg;
Colon carcinoma (Human) lysate at 30 µg;
Primary: Anti-wt-p53 (TMAB-01319) at 1:200 dilution;
Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 3000 dilution;
Predicted band size: 43 kDa
Observed band size: 53 kDa
 6. Sample:
HepG2 Cell Lysate at 40 µg
Mcf-7 Cell Lysate at 40 µg
DU145 Cell Lysate at 40 µg
Primary: Anti-P53 protein (wt-p53)(TMAB-01319) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 43 kDa
Observed band size: 50 kDa

7. Independently Validated Antibody, image provided by Science Direct, badge number 029660. Formalin-fixed and paraffin embedded human testis and breast tissue stained with Rabbit Anti-P53 protein (wt-p53) Polyclonal Antibody at 1:250 at room temperature overnight. Both positive and negative controls stained.

8. Blank control (blue line): HeLa (blue).

Primary Antibody (green line): Rabbit Anti-P53 protein (wt-p53) antibody (TMAB-01319),
Dilution: 1 µg/10⁶ 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.

9. Paraformaldehyde-fixed, paraffin embedded (Human breast cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (P53 protein (wt-p53)) Polyclonal Antibody, Unconjugated (TMAB-01319) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

10. 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 protein (wt-p53)) polyclonal Antibody, Unconjugated (TMAB-01319) 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.

11. 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 protein (wt-p53)) polyclonal Antibody, Unconjugated (TMAB-01319) 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.

12. Blank control: A549. Primary Antibody (green line): Rabbit Anti-P53 protein (wt-p53) antibody (TMAB-01319)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

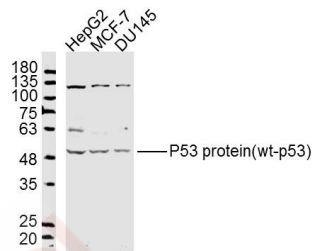
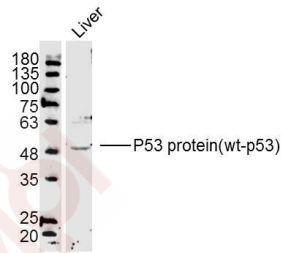
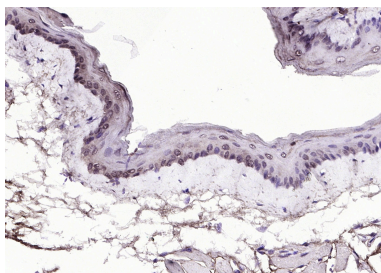
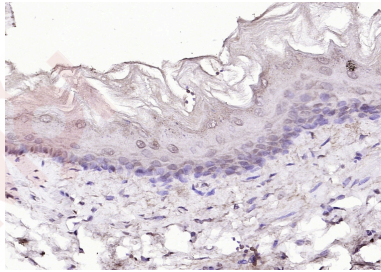
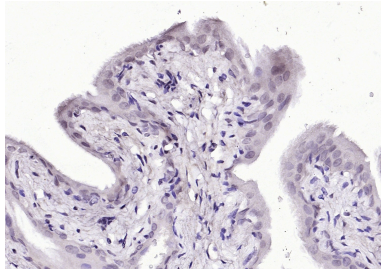
Secondary Antibody: Goat anti-rabbit IgG-AF488

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

13. Tissue/cell: A431 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 protein (wt-p53)) polyclonal Antibody, Unconjugated (TMAB-01319) 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.



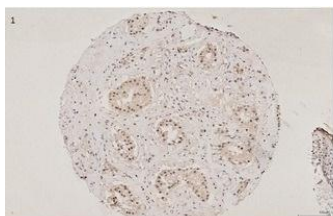


Figure 1: Human testis tissue stained with anti-p53 (brown) and counterstained with hematoxylin.

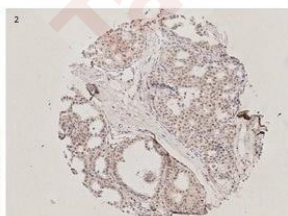
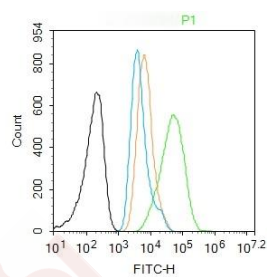
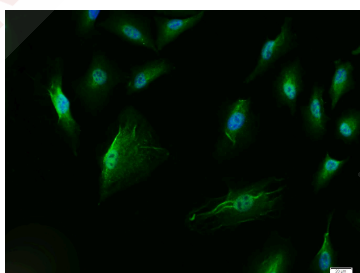
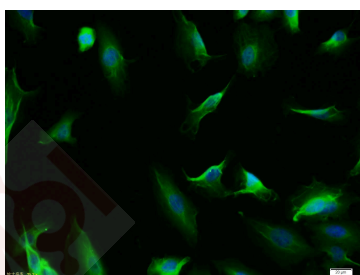
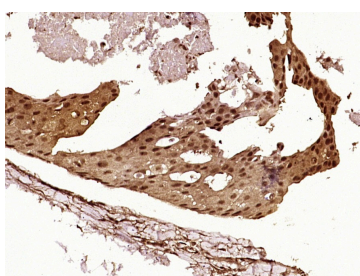
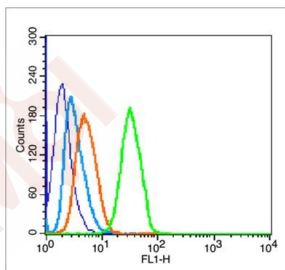
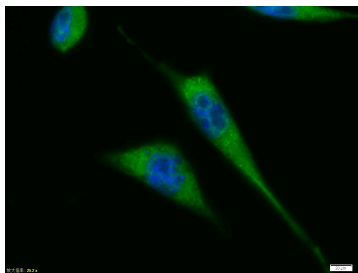


Figure 2: Human breast tissue stained with anti-p53 (brown) and counterstained with hematoxylin.





Application: FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100; IF: 1:100-500; FCM: 1µg/Test

Properties

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

Shipping: Shipping with blue ice.

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

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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