

Anti-Phospho-P53 (Thr18) Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rat (predicted: Dog, Pig, Cow, Horse, Sheep)
Molecular Weight:	Theoretical: 43 kDa. Actual: 53 kDa.
Purification:	Protein A purified

Applications

1. Blank control (blue line): Hela (fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice).
Primary Antibody (green line): Rabbit Anti-phospho-P53 (Thr18) antibody (TMAB-11087),
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.

2. Sample:

Lane 1: A549 (Human) Cell Lysate at 30 µg
Lane 2: MCF-7 (Human) Cell Lysate at 30 µg
Lane 3: Molt-4 (Human) Cell Lysate at 30 µg
Lane 4: Esophagus (Mouse) Lysate at 40 µg
Lane 5: Esophagus (Rat) Lysate at 40 µg
Lane 6: Urinary bladder (Mouse) Lysate at 40 µg
Lane 7: Uterus (Mouse) Lysate at 40 µg

Primary: Anti-phospho-P53 (Thr18) (TMAB-11087) at 1/1000 dilution

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

Predicted band size: 53 kD

Observed band size: 53 kD

Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (mouse bladder); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-P53 (Thr18)) Polyclonal Antibody, Unconjugated (TMAB-11087) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. 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 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-P53 (Thr18)) Polyclonal Antibody, Unconjugated (TMAB-11087) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

5. Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-P53 (Thr18)) Polyclonal Antibody, Unconjugated (TMAB-11087) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

A DRUG SCREENING EXPERT

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

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

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. 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 Synthesised phosphopeptide: human P53 around the phosphorylation site of Thr18

Antigen Species: Human

Gene ID: 7157

Uniprot ID: P04637

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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