**bs-3710R** **[ Primary Antibody ]**

# phospho-P53 (Thr18) Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 7157 **SWISS:** P04637

**Target:** P53 (Thr18)

**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human P53 around the phosphorylation site of Thr18: QE(p-T)FS.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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].

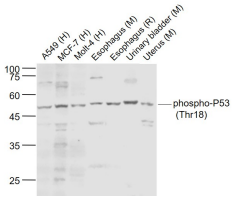
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**Flow-Cyt** (1μg /test)

**Reactivity:** Human, Mouse, Rat (predicted: Pig, Sheep, Cow, Dog, Horse)

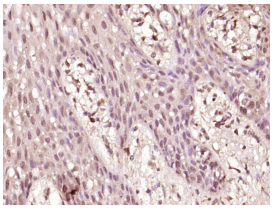
**Predicted MW.:** 43 kDa

**Subcellular Location:** Cytoplasm ,Nucleus

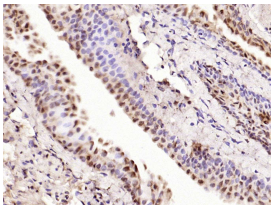
## VALIDATION IMAGES



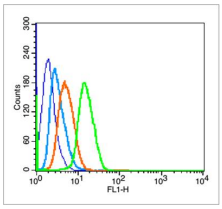

Sample: Lane 1: A549 (Human) Cell Lysate at 30 ug Lane 2: MCF-7 (Human) Cell Lysate at 30 ug Lane 3: Molt-4 (Human) Cell Lysate at 30 ug Lane 4: Esophagus (Mouse) Lysate at 40 ug Lane 5: Esophagus (Rat) Lysate at 40 ug Lane 6: Urinary bladder (Mouse) Lysate at 40 ug Lane 7: Uterus (Mouse) Lysate at 40 ug Primary: Anti-phospho-P53 (Thr18) (bs-3710R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53 kD Observed band size: 53 kD



Paraformaldehyde-fixed, paraffin embedded (Human esophageal cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-P53 (Thr18)) Polyclonal Antibody, Unconjugated (bs-3710R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat bladder); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-P53 (Thr18)) Polyclonal Antibody, Unconjugated (bs-3710R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.




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 (bs-3710R),Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1µg /test.

## SELECTED CITATIONS


- **[IF=3.15]** He, Yi, et al. "Resveratrol improved the progression of chronic prostatitis via the downregulation of c-kit/SCF by activating Sirt1." Journal of Agricultural and Food Chemistry (2017). WB ;="Rat". 28648062
- **[IF=3.111]** Chuanju Zong. et al. Chronic restraint stress promotes gastric epithelial malignant transformation by activating the Akt/p53 signaling pathway via ADRB2. ONCOL LETT. 2022 Sep;24(3):1-11 WB ;Rat. 35949623
- **[IF=2.2]** Zhufeng Tong. et al. Glycyrrhizin enhances the antitumor activity of cisplatin in non-small cell lung cancer cells by influencing DNA damage and apoptosis. ONCOL LETT. 2025 Apr;29(4):1-10 WB ;Human. 40070780