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## P53 Rabbit pAb

Catalog Number: bs-0033R

Target Protein: P53

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1µg/Test ), ICC/IF (1:100)

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

Predicted MW: 43 kDa

Entrez Gene: 7157

Swiss Prot: P04637

Source: KLH conjugated synthetic peptide derived from human P53: 251-310/393.

Purification: affinity purified by Protein A

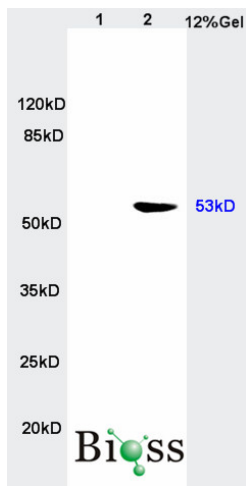
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

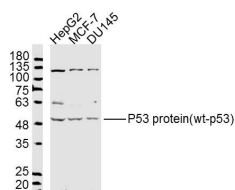
**Background:** This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA 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].

### VALIDATION IMAGES

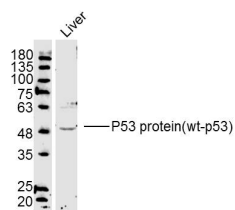
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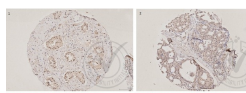
Sample: Brain(Rat) lysate at 30ug; Colon carcinoma(Human) lysate at 30 ug; Primary: Anti-wt-p53 (bs-0033R) at 1:200 dilution; Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bs-0295G) at 1: 3000 dilution; Predicted band size : 43kD Observed band size : 53kD



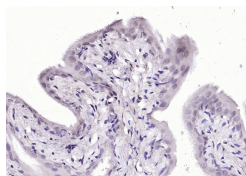
Sample: HepG2 Cell Lysate at 40 ug Mcf-7 Cell Lysate at 40 ug DU145 Cell Lysate at 40 ug Primary: Anti- P53 protein(wt-p53)(bs-0033R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 50 kD



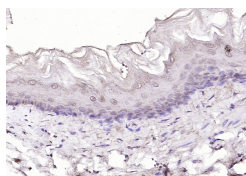
Sample: Liver(Mouse) Lysate at 40 ug Primary: Anti-P53 protein(wt-p53)(bs-0033R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 50 kD



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.



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 (P53 protein(wt-p53)) Polyclonal Antibody, Unconjugated (bs-0033R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat esophageal); 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 (P53 protein(wt-p53)) Polyclonal Antibody, Unconjugated (bs-0033R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=14.593] Guo-Bin Ding. et al. Molecularly engineered tumor acidity-responsive plant toxin gelonin for safe and efficient cancer therapy. Bioact Mater. 2022 Feb;; IHC ; MOUSE . 10.1016/j.bioactmat.2022.02.001

[IF=9.8] Bohan Chen. et al. Inhalation of ammonia promotes apoptosis and induces autophagy in hepatocytes via Bax/Bcl-2 and m-TOR/ATG5/LC-3bII axes. SCI TOTAL ENVIRON. 2024 Feb;912:169036 IHC ; Mouse . 38061639

[IF=9.038] Haiyang Zhang. et al. Combined exposure of alumina nanoparticles and chronic stress exacerbates hippocampal neuronal ferroptosis via activating IFN- $\gamma$ /ASK1/JNK signaling pathway in rats. J Hazard Mater. 2021 Jun;411:125179 WB ; Rat . 10.1016/j.jhazmat.2021.125179

[IF=7.5] Liang-Hsuan Chien. et al. Evaluation of lung protection of Sanghuangporus sanghuang through TLR4/NF- $\kappa$ B/MAPK, Keap1/Nrf2/HO-1, CaMKK/AMPK/Sirt1, and TGF- $\beta$ /SMAD3 signaling pathways mediating apoptosis and autophagy. BIOMED PHARMACOTHER. 2023 Sep;165:115080 WB ; Mouse . 37392658

[IF=6.529] Nisreen H. Shehatta. et al. Baicalin; a promising chemopreventive agent, enhances the antitumor effect of 5-FU against breast cancer and inhibits tumor growth and angiogenesis in Ehrlich solid tumor. Biomed Pharmacother. 2022 Feb;146:112599 IHC ; Mouse . 34968922