bs-0033R

[Primary Antibody]

P53 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

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

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].

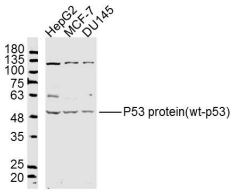
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

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

Predicted MW.: 43 kDa

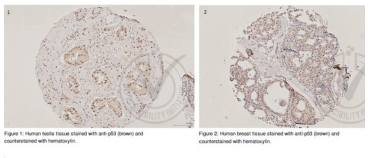
Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES

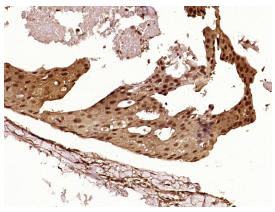


Sample: HepG2 Cell Lysate at 40 ug Mcf-7 Cell Lysate at 40 ug DU145 Cell Lysate at 40 ug Primary: Anti- P53 protein(wt-p53)(bs-0033R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 50 kD

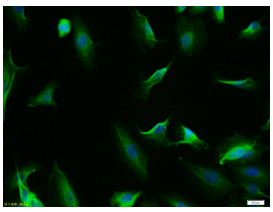
Sample: Brain(Rat) lysate at 30ug; Colon carcinoma(Human) lysate at30 ug; Primary: Anti-wt-p53 (bs-0033R) at 1:200 dilution; Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bs-0295G) at 1: 3000 dilution; Predicted band size : 43kD Observed band size : 53kD



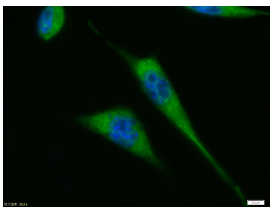
Independently Validated Antibody, image provided by Science Direct, badge number 029660. Formalin-fixed and paraffin embedded human testis and breast tissue stained with Rabbit Anti-P53 protein(wt-p53) Polyclonal Antibody at 1:250 at room temperature overnight. Both positive and negative controls stained.



Paraformaldehyde-fixed, paraffin embedded (Human breast cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking



Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (P53 protein(wt-p53)) polyclonal Antibody,



Tissue/cell: A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (P53 protein(wt-p53)) polyclonal Antibody,

buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (P53 protein(wt-p53)) Polyclonal Antibody, Unconjugated (bs-0033R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Unconjugated (bs-0033R) 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, C02-04002) was used to stain the cell nuclei.

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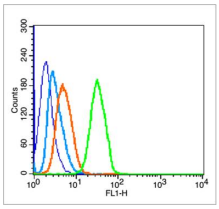
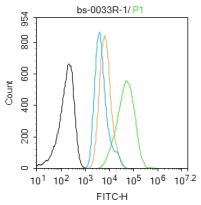


Blank control (blue line):HeLa(blue). Primary Antibody (green line): Rabbit Anti-P53 protein(wt-p53) antibody(bs-0033R), Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1μg /test. Protocol The cells 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. Acquisition of 20,000 events was performed.



Blank control:A549. Primary Antibody (green line): Rabbit Anti-P53 protein(wt-p53) antibody (bs-0033R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min 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. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[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-γ/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-κB/MAPK, keap1/Nrf2/HO-1, CaMKK/AMPK/Sirt1, and TGF-β/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