bs-0730R **[Primary Antibody]**

HSP27 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3315 **SWISS:** P04792

Target: HSP27

Immunogen: KLH conjugated synthetic peptide derived from human HSP27: 101-205/205.

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: The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq, Oct 2008]

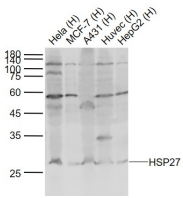
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2μg/Test)

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

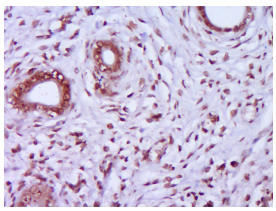
Predicted MW.: 27 kDa

Subcellular Location: Cytoplasm ,Nucleus

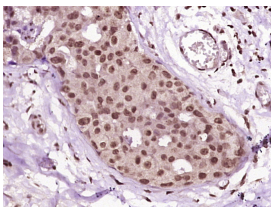
VALIDATION IMAGES



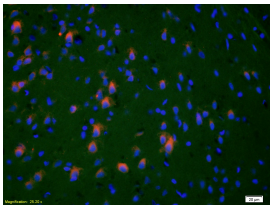
Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: MCF-7 (Human) Cell Lysate at 30 ug Lane 3: A431 (Human) Cell Lysate at 30 ug Lane 4: Huvec (Human) Cell Lysate at 30 ug Lane 5: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-HSP27 (bs-0730R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 27-30 kD Observed band size: 27 kD



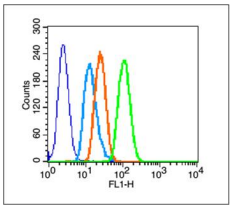
Paraformaldehyde-fixed, paraffin embedded (Rat uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSP27) Polyclonal Antibody, Unconjugated (bs-0730R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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 buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSP27) Polyclonal Antibody, Unconjugated (bs-0730R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-HSP-27 Polyclonal Antibody, Unconjugated(bs-0730R)



Blank control (blue line): A431 cells (blue). Primary Antibody (green line): Rabbit Anti-HSP27 antibody (bs-0730R) Dilution: 2μg /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% methanol

1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

(Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. 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.

SELECTED CITATIONS

- **[IF=6.7]** Maitrayee Chatterjee. et al. Glycosylated extracellular mucin domains protect against SARS-CoV-2 infection at the respiratory surface. PLOS PATHOG. 2023 Aug;19(8):e1011571 WB ;Human. 37561789
- **[IF=6.244]** Xinrui Zhang. et al. Wan-Nian-Qing, a Herbal Composite Prescription, Suppresses the Progression of Liver Cancer in Mice by Regulating Immune Response. Front Oncol. 2021; 11: 696282 WB ;Mouse. 34307161
- **[IF=3.688]** Yuliang Wen. et al. Effect of glycolysis and heat shock proteins on hypoxia adaptation of Tibetan sheep at different altitude. Gene. 2021 Nov;803:145893 WB ;Sheep. 34384864
- **[IF=3.3]** Kim Won Seob. et al. Heat Shock Protein 27 Regulates Myogenic and Self-renewal Potential of Bovine Satellite Cells Under Heat Stress. J ANIM SCI. 2023 Sep;: IF ;Bovine. 37688555
- **[IF=3.296]** Zhang X et al. Indolyl-chalcone derivatives induce hepatocellular carcinoma cells apoptosis through oxidative stress related mitochondrial pathway in vitro and in vivo.Chem Biol Interact. 2018 Sep 25;293:61-69. WB ;Human. 30055129