bs-0126R **[Primary Antibody]**

HSP70 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3303 **SWISS:** P0DMV8

Target: HSP70

Immunogen: KLH conjugated synthetic peptide derived from human HSP70: 481-534/641.

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 intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins. [provided by RefSeq, Jul 2008].

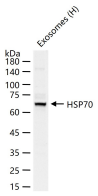
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:100)

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

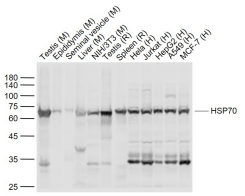
Predicted MW.: 70 kDa

Subcellular Location: Cytoplasm

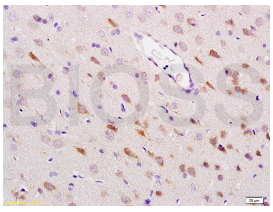
VALIDATION IMAGES



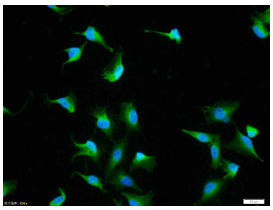
25 ug total protein per lane of various lysates (see on figure) probed with HSP70 polyclonal antibody, unconjugated (bs-0126R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

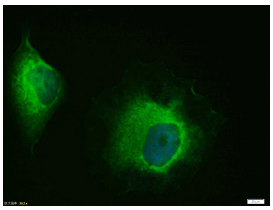


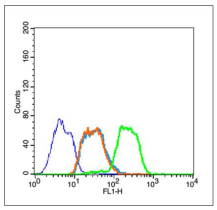
Sample: Lane 1: Testis (Mouse) Lysate at 40 ug Lane 2: Epididymis (Mouse) Lysate at 40 ug Lane 3: Seminal vesicle (Mouse) Lysate at 40 ug Lane 4: Liver (Mouse) Lysate at 40 ug Lane 5: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 6: Testis (Rat) Lysate at 40 ug Lane 7: Spleen (Rat) Lysate at 40 ug Lane 8: Hela (Human) Cell Lysate at 30 ug Lane 9: Jurkat (Human) Cell Lysate at 30 ug Lane 10: HepG2 (Human) Cell Lysate at 30 ug Lane 11: A549 (Human) Cell Lysate at 30 ug Lane 12: MCF-7 (Human) Cell Lysate at 30 ug Primary: Anti-HSP70 (bs-0126R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 70 kD Observed band size: 68 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-HSP-70 Polyclonal Antibody, Unconjugated(bs-0126R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining







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 (HSP70) polyclonal Antibody, Unconjugated (bs-0126R) 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.

Hela 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 (HSP70) polyclonal Antibody, Unconjugated (bs-0126R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Blank control (blue line): Jurkat (blue). Primary Antibody (green line): Rabbit Anti-HSP70 antibody (bs-0126R) 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 2% paraformaldehyde (10 min) , 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.

SELECTED CITATIONS

- **[IF=17.1]** Ke Li. et al. All-in-One Engineering Multifunctional Nanoplatforms for Sensitizing Tumor Low-Temperature Photothermal Therapy In Vivo. ACS NANO. 2023;17(20):20218–20236 WB ;Mouse. 37838975
- **[IF=11.467]** Yue Sun. et al. A single-beam of light priming the immune responses and boosting cancer photoimmunotherapy. J CONTROL RELEASE. 2022 Oct;350:734 WB,FCM ;Mouse. 36063959
- **[IF=9.3]** Dan Peng. et al. MMP14high macrophages orchestrate progressive pulmonary fibrosis in SR-Ag-induced hypersensitivity pneumonitis. PHARMACOL RES. 2024 Jan;:107070 WB ;Mouse. 38218353
- **[IF=7.78]** Xu,et al.Ultrasensitive electrochemical sensing of Hg2+ based on thymine-Hg2+-thymine interaction and signal amplification of alkaline phosphatase catalyzed silver deposition.(2018) Biosensors & Bioelectronics. 104:95-101. Other ;. 29328971
- **[IF=7.6]** Yulong Li. et al. Cadmium exposure induces oxidative stress-mediated necroptosis via TLR4/NF-κB signaling pathway in pig epididymis. ENVIRON POLLUT. 2025 Feb;366:125514 IF ;Pig. 39662580