

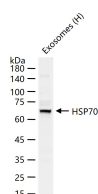
bs-0244R**[Primary Antibody]****HSPA1A | HSP70 Rabbit pAb****Bioss**
ANTIBODIES

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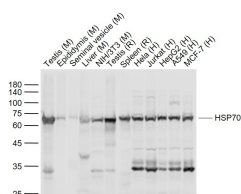
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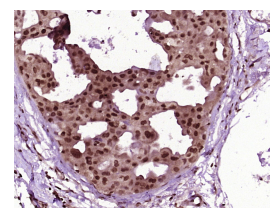
400-901-9800

DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 3303**SWISS:** P0DMV8**Target:** HSPA1A | HSP70**Immunogen:** KLH conjugated synthetic peptide derived from human HSP70: 500-600/641.**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 conjunction 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** (1:1000-5000)
IHC-P (1:200-1000)
IHC-F (1:200-1000)
IF (1:200-1000)
Flow-Cyt (1ug/Test)
ICC/IF (1:100-500)**Reactivity:** Human, Mouse, Rat
(predicted: Rabbit, Pig, Sheep, Cow, Chicken, Arabidopsis Thaliana)**Predicted MW.:** 70 kDa**Observed MW.:** 68 kDa**Subcellular Location:** Cytoplasm**VALIDATION IMAGES**

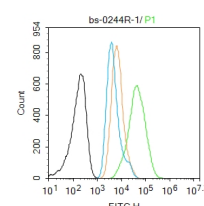
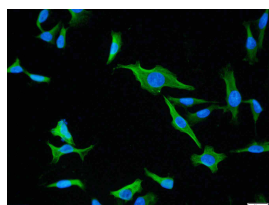
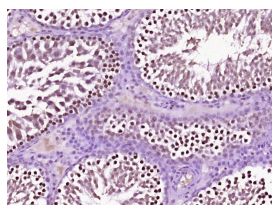
25 ug total protein per lane of various lysates (see on figure) probed with HSP70 polyclonal antibody, unconjugated (bs-0244R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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: Hepa (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-0244R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 70 kD
Observed band size: 68 kD



Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); 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 (HSP70) Polyclonal Antibody, Unconjugated (bs-0244R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Paraformaldehyde-fixed, paraffin embedded (Rat testis); 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 (HSP70) Polyclonal Antibody, Unconjugated (bs-0244R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Tissue/cell: U-87MG 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-0244R) 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.

Blank control:A549. Primary Antibody (green line): Rabbit Anti-HSP70 antibody (bs-0244R) Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-BF488 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=15.8]** Ying Huang. et al. Bioorthogonal Regulated Metabolic Balance for Promotion of Ferroptosis and Mild Photothermal Therapy. ACS NANO. 2024;XXXX(XXX):XXX-XXX WB,IF ;Mouse,Human. 39373015
- **[IF=15.7]** Li Xuan. et al. Directed rescue strategy for enhanced implant osteointegration in aged rats. NAT COMMUN. 2025 Nov;16(1):10322 WB ;Rat. 41285771
- **[IF=13]** Jiayi Li. et al. Reprogramming the Tumor Immune Microenvironment Through Activatable Photothermal Therapy and GSH depletion Using Liposomal Gold Nanocages to Potentiate Anti-Metastatic Immunotherapy. SMALL. 2024 Oct;;2407388 WB ;Mouse. 39359043
- **[IF=10.652]** Yanan Hu. et al. Preparation of photothermal responsive and ROS generative gold nanocages for cancer therapy. CHEM ENG J. 2021 Oct;421:129744 WB ;Human. 10.1016/j.cej.2021.129744
- **[IF=10.435]** Wan, Guoyun. et al. Gene augmented nuclear-targeting sonodynamic therapy via Nrf2 pathway-based redox balance adjustment boosts peptide-based anti-PD-L1 therapy on colorectal cancer. J Nanobiotechnol. 2021 Dec;19(1):1-26 IF ;Mouse. 34715867