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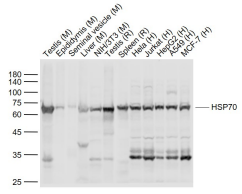
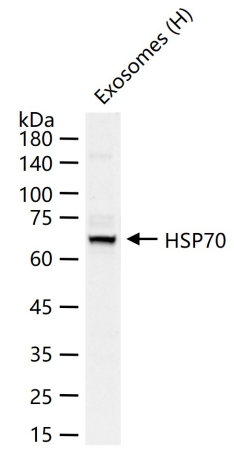
HSP70 Rabbit pAb

Catalog Number:	bs-0244R
Target Protein:	HSP70
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 (1ug/Test), ICC/IF (1:100)
Reactivity:	Human, Mouse, Rat (predicted:Rabbit, Sheep, Cow, Chicken)
Predicted MW:	70 kDa
Entrez Gene:	3303
Swiss Prot:	P0DMV8
Source:	KLH conjugated synthetic peptide derived from human HSP70: 500-600/641.
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 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].

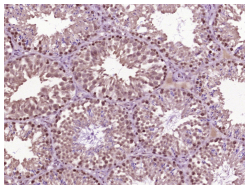
VALIDATION IMAGES



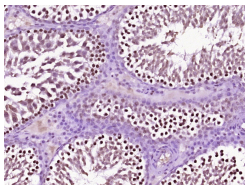
Sample: Lane 1: Testis (Mouse) Lysate at 40 ug Lane 2: Epididymis (Mouse) Lysate at 40 ug Lane 3: Seminal vesicle (Mouse) Lysate at 40 ug Lane 4: Liver (Mouse) Lysate at 40 ug Lane 5: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 6: Testis (Rat) Lysate at 40 ug Lane 7: Spleen (Rat) Lysate at 40 ug Lane 8: 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-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



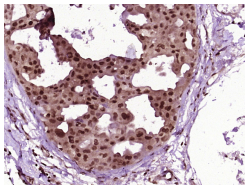
25 ug total protein per lane of various lysates (see on figure) probed with HSP70 polyclonal antibody, unconjugated (bs-0244R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



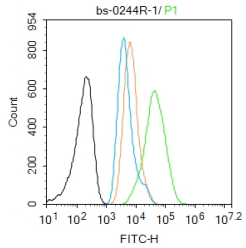
Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSP70) Polyclonal Antibody, Unconjugated (bs-0244R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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) instructionsand DAB staining.



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) instructionsand DAB staining.



Blank control:A549. Primary Antibody (green line): Rabbit Anti-HSP70 antibody (bs-0244R) 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.

PRODUCT SPECIFIC PUBLICATIONS

[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=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

[IF=6.8] Dongliu Luo. et al. Cannabidiol alleviates perfluorooctane sulfonate-induced macrophage extracellular trap mediate inflammation and fibrosis in mice liver. ECOTOX ENVIRON SAFE. 2023 Sep;263:115374 WB ; Mouse,Human . 37591127