### bs-0244R

- DATASHEET -

## [ Primary Antibody ]

# HSP70 Rabbit pAb



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Host: Rabbit	lsotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		<b>IHC-P</b> (1:100-500)
GenelD: 3303	SWISS: PODMV8	<b>IF</b> (1:100-500)
Target: HSP70		Flow-Cyt (1ug/Test) ICC/IF (1:100)
Immunogen: KLH conjugated synthetic peptide derived from human HSP70: 500-600/641.		Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheen, Cow, Chicken)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
<b>Storage:</b> 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		Predicted MW.: <sup>70 kDa</sup>
freeze/thaw cycles	ne encodes a 70kDa heat shock protein which is a	Location: Cytoplasm
member of the hea other heat shock p against aggregatic	at shock protein 70 family. In conjuction with proteins, this protein stabilizes existing proteins in 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 AUrich 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

#### - VALIDATION IMAGES



by RefSeq, Jul 2008].

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: 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



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.







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. Tissue/cell: U-87MG cell; 4% Paraformaldehydefixed; 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 /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.



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.

## - SELECTED CITATIONS -

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- [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
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- [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