

**bs-10451R****[ Primary Antibody ]****phospho-HSP70 (Tyr41) Rabbit pAb**

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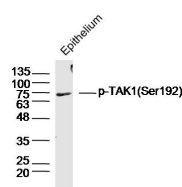
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400-901-9800

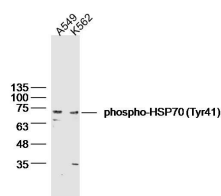
**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 3303**SWISS:** P0DMV8**Target:** HSP70 (Tyr41)**Immunogen:** KLH conjugated Synthesised phosphopeptide derived from human HSP70 around the phosphorylation site of Tyr41: PS(p-Y)VA.**Purification:** affinity purified 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.

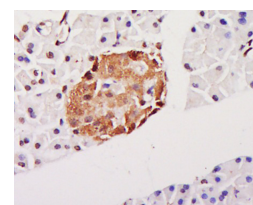
**Background:** This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol 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 (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**Reactivity:** Human, Mouse, Rat  
(predicted: Cow, Chicken)**Predicted MW.:** 70 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

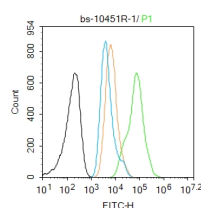
Sample: Epithelium (Mouse) Lysate at 40 ug  
Primary: Anti-phospho-HSP70 (Tyr41)  
(bs-10451R) at 1/300 dilution Secondary:  
IRDye800CW Goat Anti-Rabbit IgG at 1/20000  
dilution Predicted band size: 70 kD Observed  
band size: 70 kD



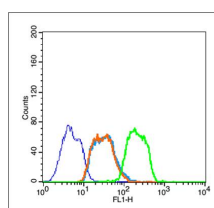
Sample: A549(Human) Cell Lysate at 30 ug  
K562(Human) Cell Lysate at 30 ug Primary: Anti-  
phospho-HSP70 (Tyr41) (bs-10451R) at 1/300  
dilution Secondary: IRDye800CW Goat Anti-  
Rabbit IgG at 1/20000 dilution Predicted band  
size: 70 kD Observed band size: 70 kD



Tissue/cell: Rat pancreas 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-phospho-HSP70(Tyr41) Polyclonal Antibody,  
Unconjugated(bs-10451R) 1:500, overnight at  
4°C, followed by conjugation to the secondary  
antibody(SP-0023) and DAB(C-0010) staining



Blank control: A549. Primary Antibody (green  
line): Rabbit Anti-phospho-HSP70 (Tyr41)  
antibody (bs-10451R) Dilution: 1µg / 10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit



Blank control (blue line): Jurkat (fixed with 2%  
paraformaldehyde (10 min), then permeabilized  
with 90% ice-cold methanol for 30 min on ice).  
Primary Antibody (green line): Rabbit Anti-

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

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.

phospho-HSP70 (Tyr41) antibody (bs-10451R),Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1µg /test.