

## Rabbit Anti-phospho-HSP70 (Tyr611)antibody

SL10448R

**Product Name** phospho-HSP70 (Tyr611)

**Chinese Name** 磷酸化热休克蛋白-70 抗体

**Alias** HSP70 (phospho Tyr611); HSP70 (phospho Y611); p-HSP70 (Tyr611); p-HSP70 (Y611); HSP70; HSP-70; HSP 70; Heat shock 70 kDa protein 1; heat shock 70kDa protein 1A; Heat shock 70kDa protein 1B; Heat shock induced protein; heat shock protein 70; HSP70 1; HSP70 2; HSP70.1; HSP72; HSPA1; HSPA1A; HSPA1B; XXbac BCX40G17.3 001; Heat shock 70 kDa protein 1A/1B; HSP71A\_HUMAN; Hspa1a; Hsp70-1; HSP72; Hspa1; Hspa1b; Heat shock 70 kDa protein 1A/1B; shock 70 kDa protein 1/2; HSP70-1/HSP70-2; HSP70.1/HSP70.2.

**Product Type** Phosphorylated anti

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, Mouse, Rat, (predicted: Dog, Pig, Rabbit, Guinea Pig, )

**Applications** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1µg/Test (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 70kDa

**Cellular localization** cytoplasmic

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated Synthesised phosphopeptide derived from human HSP70 around the phosphorylation site of Tyr611: GL(p-Y)QG

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

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**Solution**

**Storage**

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention**

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

**PubMed**

[PubMed](#)

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].

**Function:**

In cooperation with other chaperones, Hsp70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. These chaperones participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage. In case of rotavirus A infection, serves as a post-attachment receptor for the virus to facilitate entry into the cell.

**Product  
Detail**

**Subunit:**

Component of the CatSper complex. Identified in a mRNP granule complex, at least composed of ACTB, ACTN4, DHX9, ERG, HNRNPA1, HNRNPA2B1, HNRNPAB, HNRNPD, HNRNPL, HNRNPR, HNRNPU, HSPA1, HSPA8, IGF2BP1, ILF2, ILF3, NCBP1, NCL, PABPC1, PABPC4, PABPN1, RPLP0, RPS3, RPS3A, RPS4X, RPS8, RPS9, SYNCRIP, TROVE2, YBX1 and untranslated mRNAs. Interacts with TSC2. Interacts with IRAK1BP1. Interacts with TERT; the interaction occurs in the absence of the RNA component, TERC, and dissociates once the TERT complex has formed. Interacts with DNAJC7. Interacts with CHCHD3.

**Subcellular Location:**

Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

**Tissue Specificity:**

HSPA1B is testis-specific.

**Similarity:**

Belongs to the heat shock protein 70 family.

**SWISS:**

P0DMV8

**Gene ID:**  
3303

**Database links:**

[Entrez Gene: 281825](#) Cow

[Entrez Gene: 3303](#) Human

[Entrez Gene: 3304](#) Human

[Entrez Gene: 15511](#) Mouse

[Entrez Gene: 193740](#) Mouse

[Entrez Gene: 24472](#) Rat

[Entrez Gene: 294254](#) Rat

[Omim: 140550](#) Human

[Omim: 603012](#) Human

[SwissProt: Q27975](#) Cow

[SwissProt: P0DMV8](#) Human

[SwissProt: P0DMV9](#) Human

[SwissProt: P17879](#) Mouse

[SwissProt: Q61696](#) Mouse

[SwissProt: Q07439](#) Rat

[Unigene: 274402](#) Human

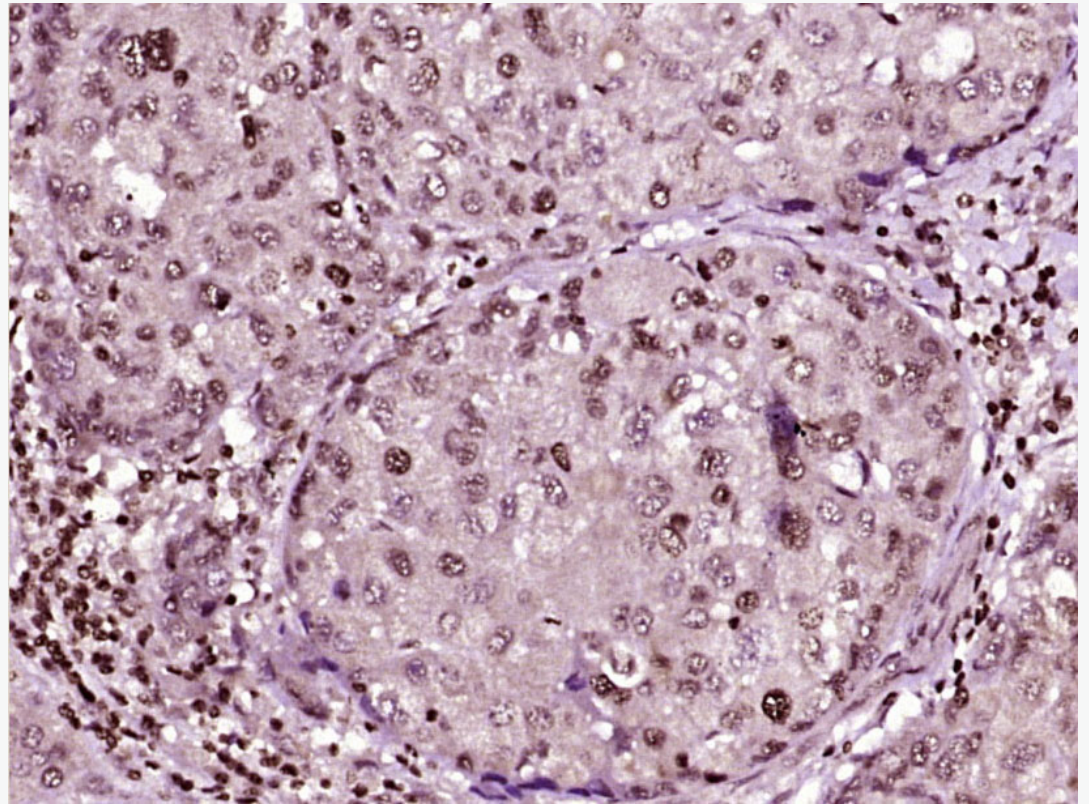
[Unigene: 719966](#) Human

[Unigene: 728810](#) Human

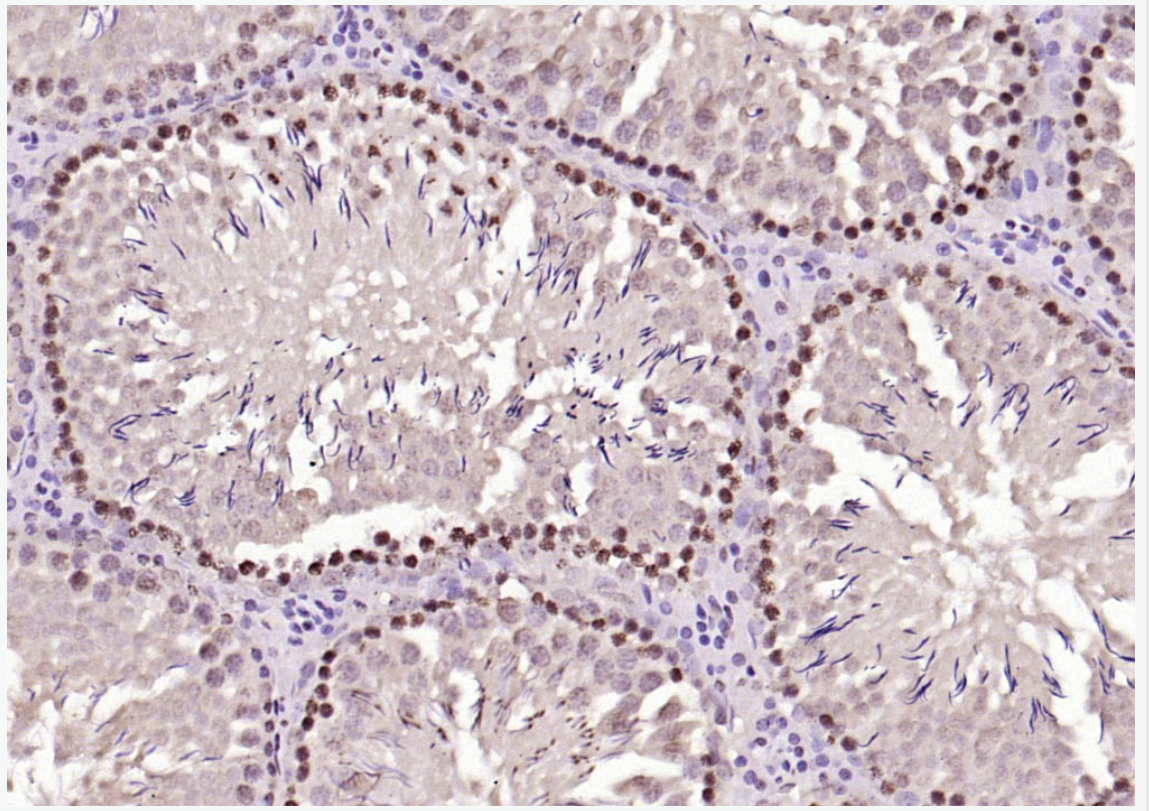
[Unigene: 1950](#) Rat

[Unigene: 228225](#) Rat

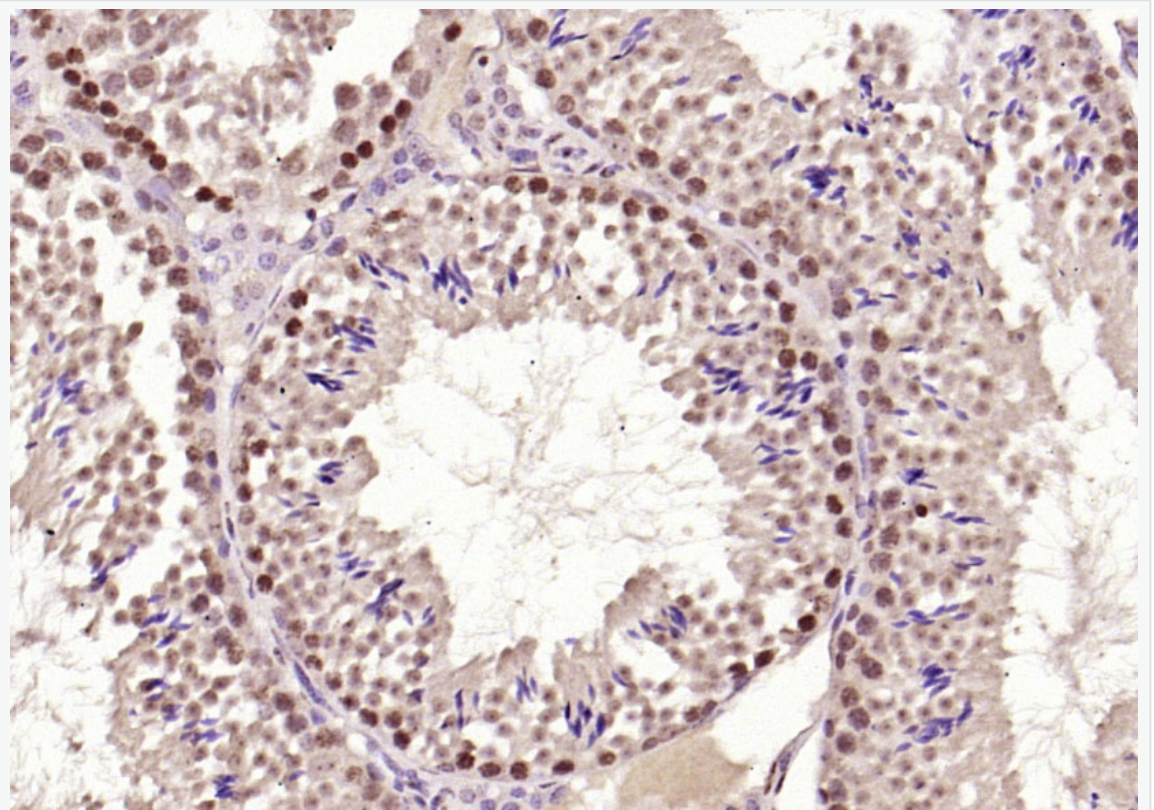
**Product  
Picture**



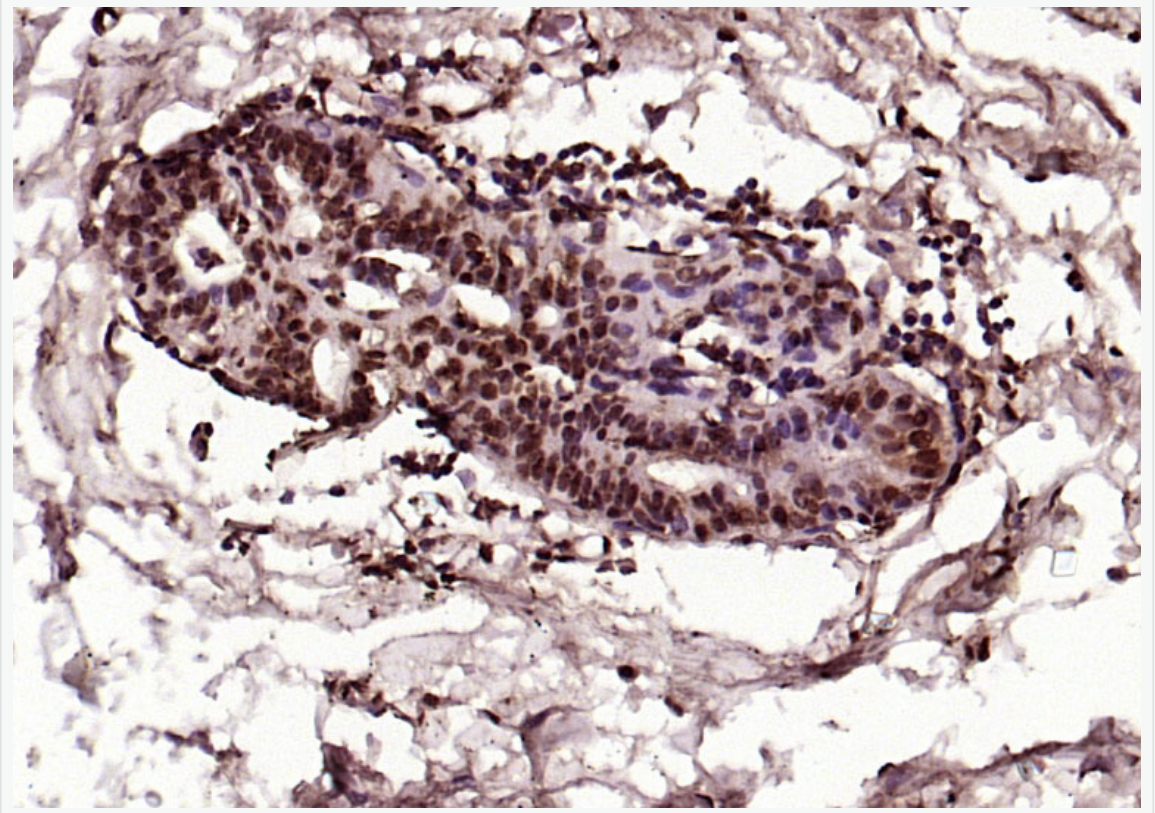
Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-HSP70 (Tyr611)) Polyclonal Antibody, Unconjugated (SL10448R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



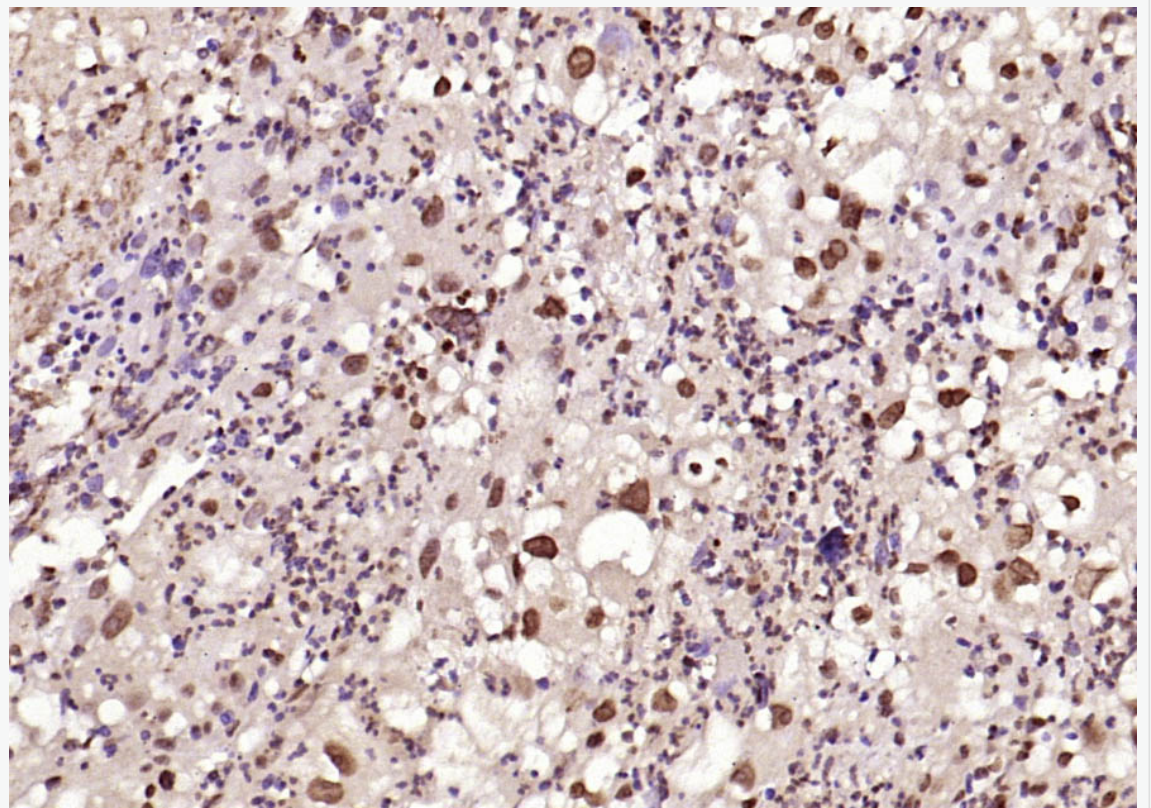
Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-HSP70 (Tyr611)) Polyclonal Antibody, Unconjugated (SL10448R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



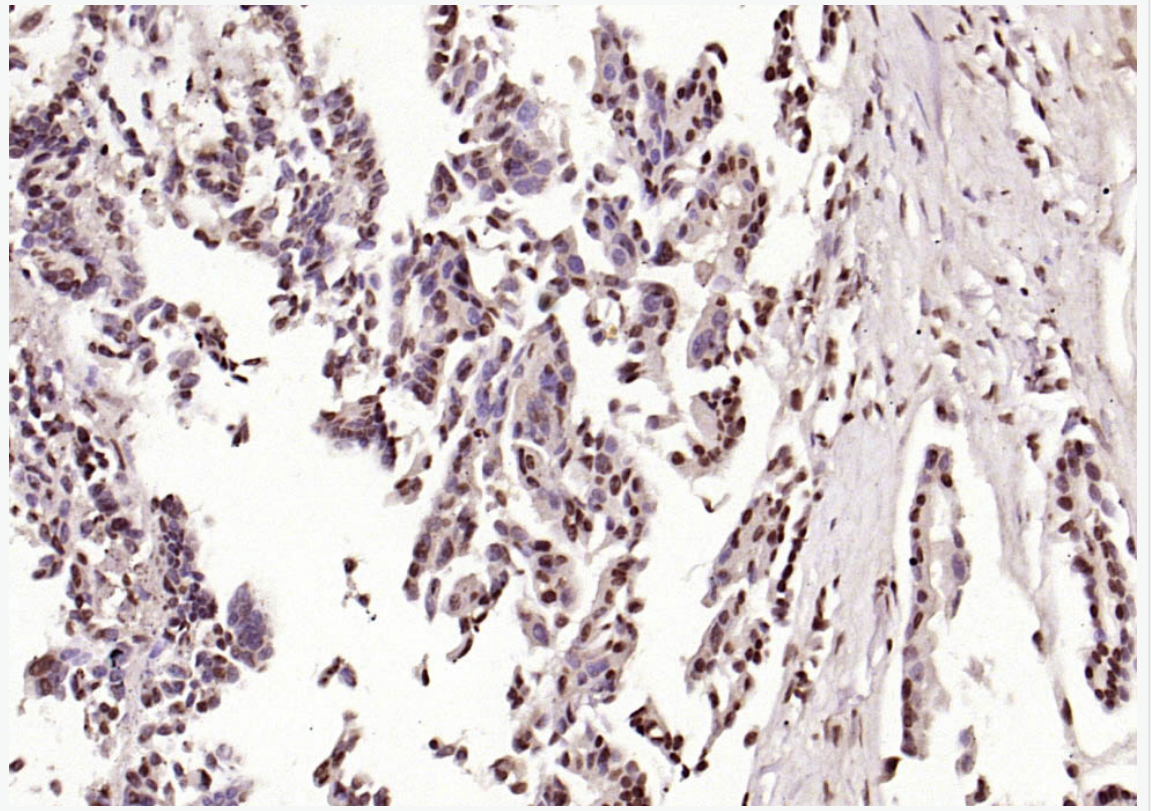
Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-HSP70 (Tyr611)) Polyclonal Antibody, Unconjugated (SL10448R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



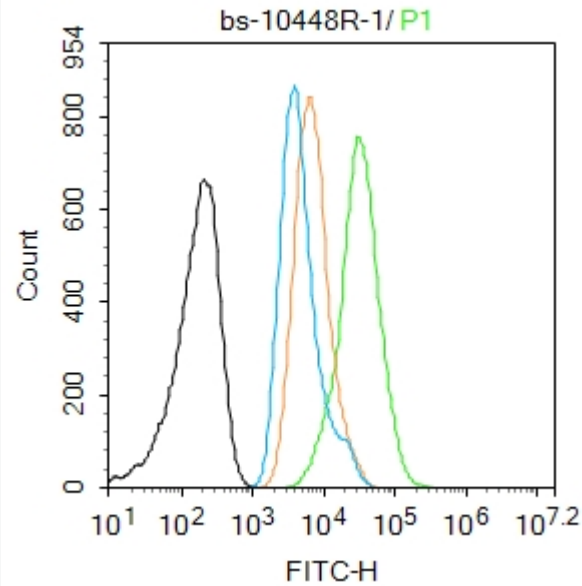
Paraformaldehyde-fixed, paraffin embedded (human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-HSP70 (Tyr611)) Polyclonal Antibody, Unconjugated (SL10448R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human endometrial 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 (phospho-HSP70 (Tyr611)) Polyclonal Antibody, Unconjugated (SL10448R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human gastric 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 (phospho-HSP70 (Tyr611)) Polyclonal Antibody, Unconjugated (SL10448R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control:A549.

Primary Antibody (green line): Rabbit Anti-phospho-HSP70 (Tyr611) antibody (SL10448R)

Dilution: 1 $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

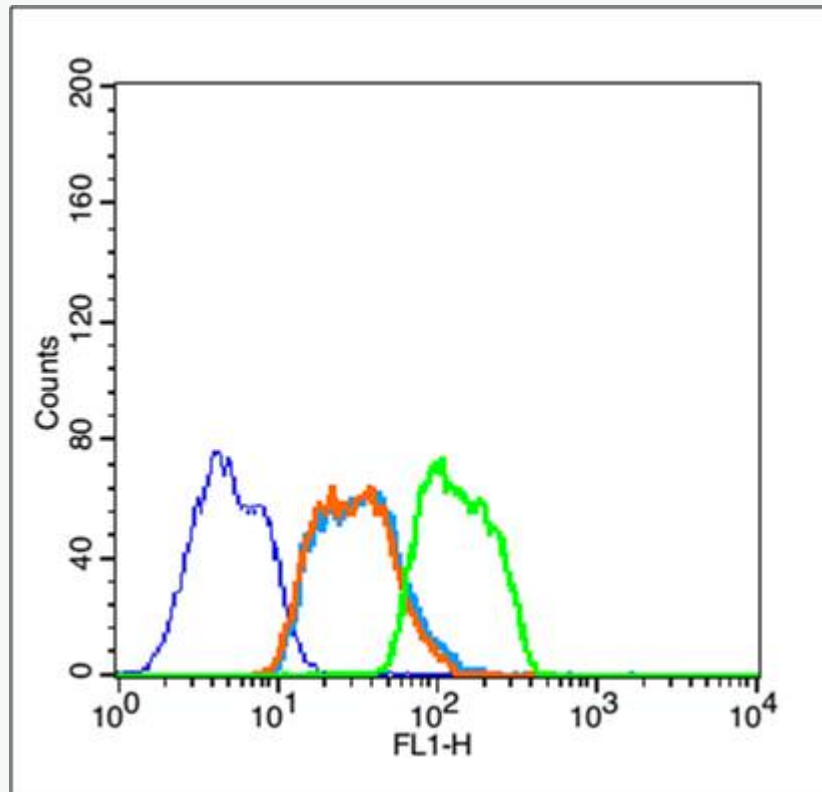
Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution: 1 $\mu$ g /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 (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-phospho-HSP70 (Tyr611) antibody (SL10448R),Dilution: 1 $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1 $\mu$ g /test.