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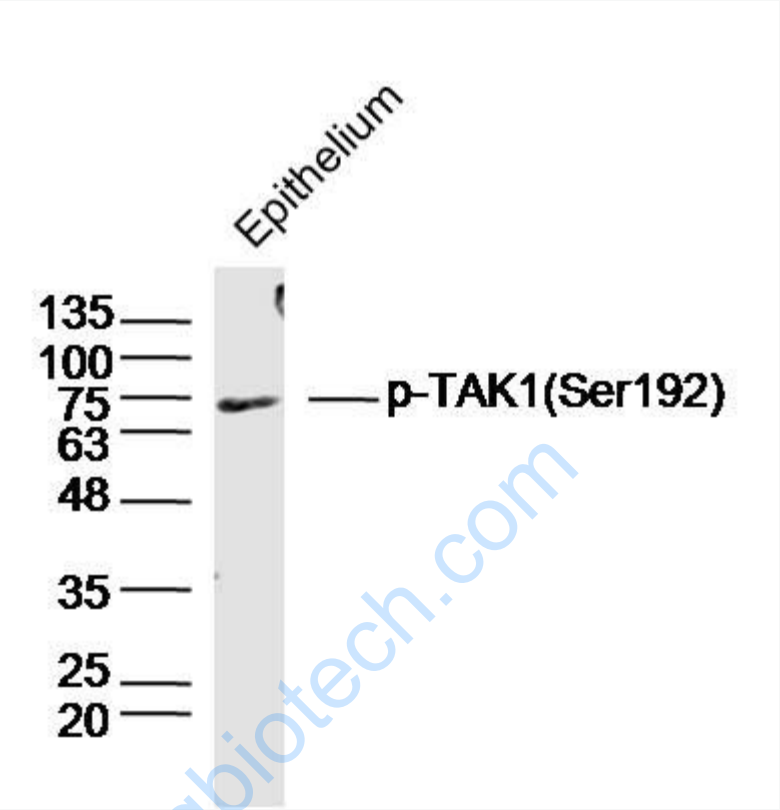
Rabbit Anti-phospho-HSP70 (Tyr41) antibody

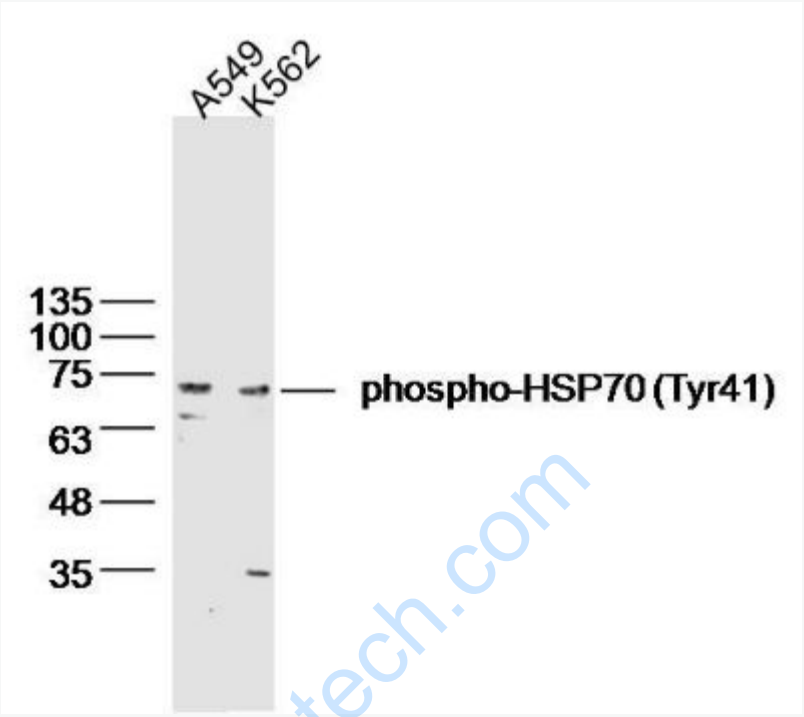
SL10451R

Product Name:	phospho-HSP70 (Tyr41)
Chinese Name:	磷酸化热休克蛋白-70抗体
Alias:	HSP70 (phospho 41); HSP70 (phospho Y41); p-HSP70 (Tyr41); p-HSP70 (Y41); 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	70kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human HSP70 around the phosphorylation site of Tyr41:PS(p-Y)VA
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:	PubMed
Product Detail:	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]. **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. **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: 281825Cow Entrez Gene: 3303Human Entrez Gene: 3304Human Entrez Gene: 15511Mouse Entrez Gene: 193740Mouse Entrez Gene: 24472Rat Entrez Gene: 294254Rat Omim: 140550Human Omim: 603012Human SwissProt: Q27975Cow SwissProt: P0DMV8Human SwissProt: P0DMV9Human SwissProt: P17879Mouse SwissProt: Q61696Mouse SwissProt: Q07439Rat Unigene: 274402Human Unigene: 719966Human Unigene: 728810Human Unigene: 1950Rat Unigene: 228225Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: Epithelium (Mouse) Lysate at 40 ug Primary: Anti-phospho-HSP70 (Tyr41) (SL10451R) 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

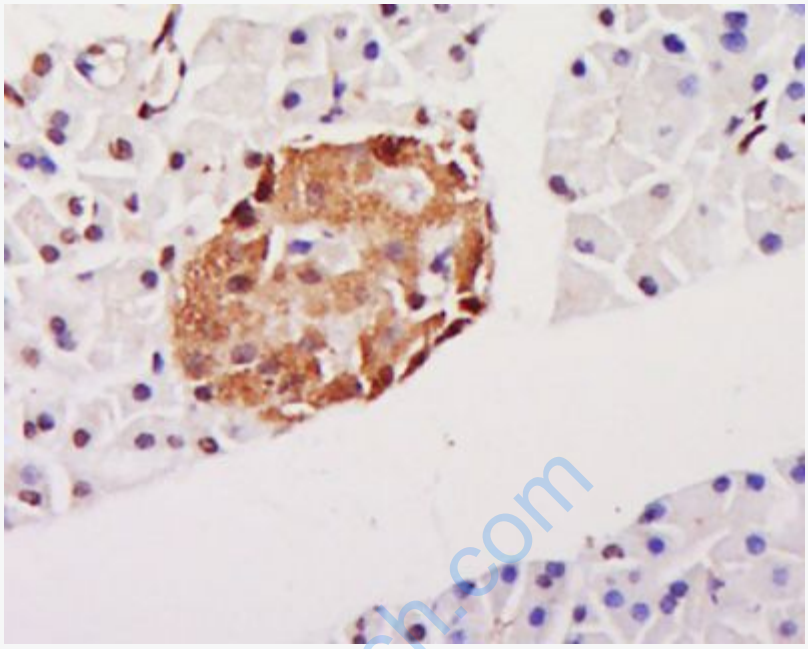
K562(Human) Cell Lysate at 30 ug

Primary: Anti-phospho-HSP70 (Tyr41) (SL10451R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 70 kD

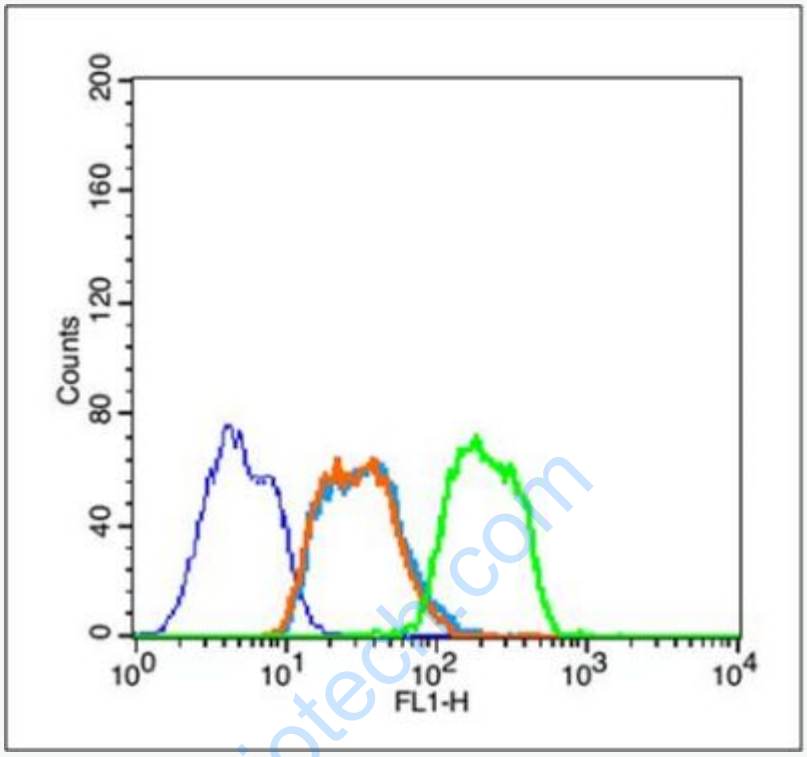
Observed band size: 70 kD



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℃ for 20 min;

Incubation: Anti-phospho-HSP70(Tyr41)Polyclonal Antibody, Unconjugated(SL10451R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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 (Tyr41) antibody (SL10451R),Dilution: 1µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

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