SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-phospho-HSP70 (Tyr611)/APC Conjugated antibody

Catalog Number: SL10448R-APC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-phospho-HSP70 (Tyr611)/APC
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human HSP70 around the phosphorylation site of Tyr611
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1μg/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog,Pig,Rabbit,GuineaPig)
Background:	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]. **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

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	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. **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 Important

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