SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-Phospho-HSP90 alpha (Thr5 + Thr7) antibody

SL3181R

Product Name:	Phospho-HSP90 alpha (Thr5 + Thr7)
Chinese Name:	磷酸化热休克蛋白90α抗体
Alias:	HSP90 alpha (Phospho-Thr5/7); HS90A_HUMAN; heat shock 90kDa protein 1 alpha; Heat shock protein 90kDa alpha cytosolic class A member 1; heat shock protein 90kDa alpha (cytosolic), class A member 2; Heat shock protein 90kDa alpha cytosolic class B member 1; Heat shock protein HSP 90 alpha; Heat shock protein HSP 90-alpha; Heat shock protein HSP 90 beta; HSP 84; HSP 86; Hsp 90; HSP84; HSP86; Hsp89; HSP89A; Hsp90; HSP90 Beta; HSP90A; HSP90AA1; HSP90AB1; HSP90B; HSP90N; HSPC1; HSPC2; HSPCA; HSPCAL1; HSPCAL3; HSPCAL4; HSPCB; HSPN; Heat shock 86 kDa; HSP90ALPHA; HSPN; LAP2; Lipopolysaccharide associated protein2; LPS associated protein 2; NY REN 38 antigen; Renal carcinoma antigen NY REN 38; Renal carcinoma antigen NY-REN-38; D6S182; FLJ26984; FLJ31884.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	84kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human HSP90 around the phosphorylation site of Thr5/7:EE(p-T)Q(p-T)QD
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:	In mammalian cells there are at least two Hsp90 isoforms, Hsp90a and Hsp90b which are encoded by separate genes. These ubiquitous and highly conserved proteins account for 1-2% of all cellular proteins in most cells. Hsp90 is part of the cells powerful network of chaperones to fight the deleterious consequences of protein unfolding caused by nonphysiological conditions. However, in the absence of stress, Hsp90 is a necessary component of fundamental cellular processes such as hormone signaling and cell cycle control. In this context several key regulatory proteins such as steriod receptors, cell cycle kinases involved in signal transduction and p53 have been identified as substrates of Hsp90. It has been suggested that Hsp90 acts as a capacitor for morphological evolution by buffering widespread variation, which may affect morphogenic pathways. **Function:** Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function. **Subunit:** Homodimer. Interacts with AHSA1, FNIP1, HSF1, SMYD3 and TOM34. Interacts with TERT; the interaction, together with PTGES3, is required for correct assembly and stabilization of the TERT holoenzyme complex. Interacts with CHORDC1 and DNAJC7. Interacts with STUB1 and UBE2N; may couple the chaperone and ubiquitination systems. **Subcellular Location:** Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. **Post-translational modifications:** ISGylated. S-nitrosylated; negatively regulates the ATPase activity and the activation of eNOS by HSP90AA1. **Similarity:** Belongs to the heat shock protein 90 family. **SWISS:** P07900

Gene ID:
3320

Database links:

Entrez Gene: 423463Chicken

Entrez Gene: 281832Cow

Entrez Gene: 3320Human

Entrez Gene: 15519Mouse

Entrez Gene: 397028Pig

Entrez Gene: 299331Rat

Omim: 140571Human

SwissProt: P11501Chicken

SwissProt: Q76LV2Cow

SwissProt: P07900Human

SwissProt: P07901Mouse

SwissProt: O02705Pig

SwissProt: P30946Rabbit

SwissProt: P82995Rat

Unigene: 525600Human

Unigene: 700831Human

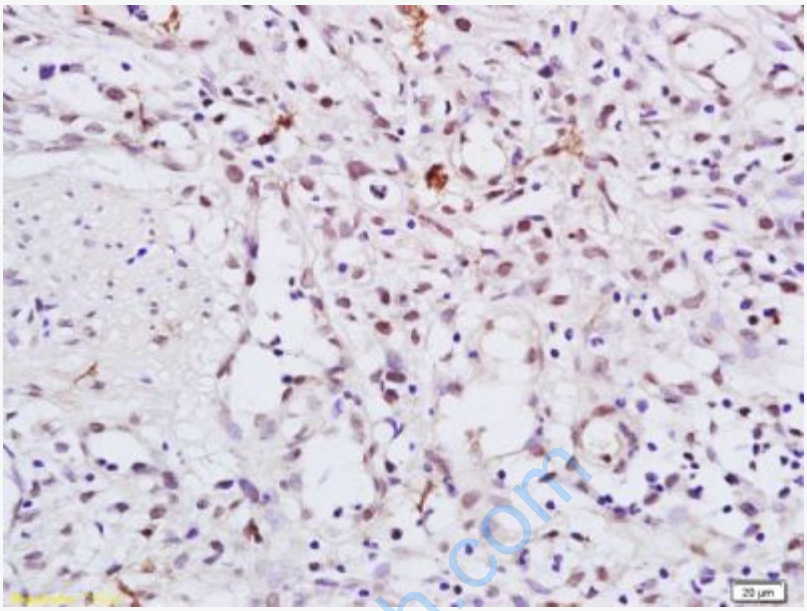
Unigene: 1843Mouse

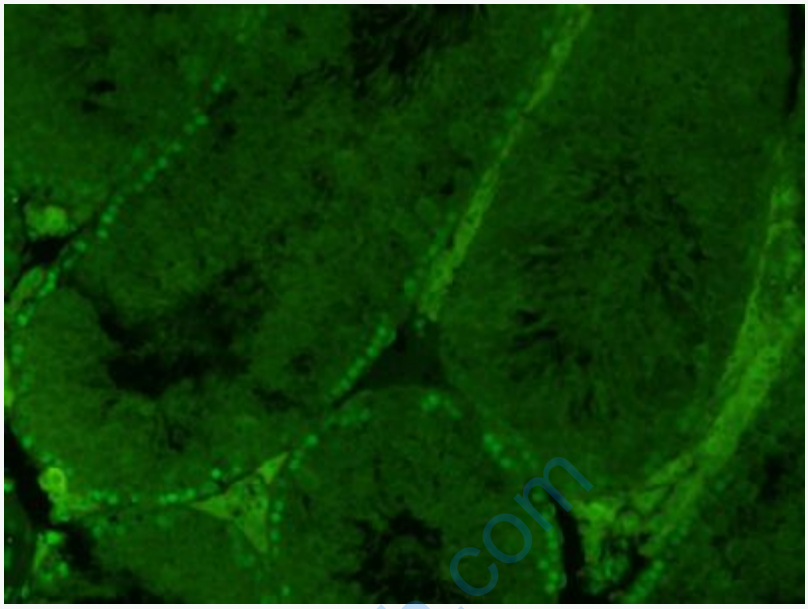
Unigene: 341186Mouse

Unigene: 119867Rat

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

热休克蛋白-90α主要在类肌细胞、间质细胞、支持The nucleus及生精细胞的胞浆表达; HSP-90 alpha与Tumour的关系密切，在许多Tumour细胞中HSP90α表达升高.

Picture:	 Tissue/cell: human gastric carcinoma; 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-HSP90 alpha (Thr5+Thr7) Polyclonal Antibody, Unconjugated(SL3181R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) 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-HSP90 alpha (Thr5 + Thr7)) Polyclonal Antibody, Unconjugated (SL3181R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (SL3181R) for 90 minutes, and DAPI for nuclei staining.