

Rabbit Anti-HSP27 antibody

SL0730R

Product Name:	HSP27
Chinese Name:	热休克蛋白27/HSP25抗体
Alias:	Heat shock 27kDa protein; 28 kDa heat shock protein; CMT2F; DKFZp586P1322; Estrogen regulated 24 kDa protein; Estrogen-regulated 24 kDa protein; Heat shock 25kDa protein 1; Heat shock 25kDa protein 1; Heat shock 27 kDa protein; Heat shock 27kD protein 1; Heat shock 27kDa protein 1; Heat shock 27kDa protein 1; Heat shock 28kDa protein 1; Heat shock 28kDa protein 1; Heat Shock Protein 27; Heat Shock Protein 27; Heat shock protein beta 1; Heat shock protein beta-1; Heat Shock Protein27; Heat Shock Protein27; HMN2B; HS.76067; Hsp 25; Hsp 25; Hsp 27; Hsp 27; Hsp 28; Hsp 28; Hsp B1; Hsp B1; Hsp25; Hsp25; HSP27; Hsp28; Hsp28; HspB1; HspB1; HSPB1_HUMAN; SRP27; Stress responsive protein 27; Stress-responsive protein 27.
	Specific References(1) SL0730R has been referenced in 1 publications.
文献引用	[IF=2.04] Gao, Hong, et al. "Comparative study of Hsp27, GSK3β, Wnt1 and PRDX3 in
Pub	Hirschsprungs disease." International Journal of Experimental Pathology
:	(2014).WB;Human.
	PubMed:24773279
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-
	Cyt=2µg/TestIF=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:	27kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml

immunogen:	KLH conjugated synthetic peptide derived from human HSP27:101-205/205
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:	The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq, Oct 2008] Function: Involved in stress resistance and actin organization. Subunit: Interacts with TGFB111. Associates with alpha- and beta-tubulin, microtubules and CRYAB. Interacts with HSPB8 and HSPBAP1. Subcellular Location: Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, spindle. Note=Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles. Tissue Specificity: Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and in tissues composed of striated and smooth muscle. Post-translational modifications: Phosphorylated in MCF-7 cells on exposure to protein kinase C activators and heat shock. Phosphorylated in MCF-7 cells on exposure to protein kinase C activators and heat shock. Phosphorylation by MAPKAPK2 and MAPKAPK3 in response to stress leads to dissociate HSP27/HSPB1 from large small heat-shock protein (SH599) oligomers and impair its chaperone activity and ability to protect against oxidative stress effectively. Phosphorylation by MAPKAPK5 in response to PKA stimulation induces F-actin rearrangement. DISEASE: Defects in HSPB1 are the cause of Charcot-Marie-Tooth disease type 2F (CMT2F)

[MIM:606595]. CMT2F is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy. Nerve conduction velocities are normal or slightly reduced. CMT2F onset is between 15 and 25 years with muscle weakness and atrophy usually beginning in feet and legs (peroneal distribution). Upper limb involvement occurs later. CMT2F inheritance is autosomal dominant.

Defects in HSPB1 are a cause of distal hereditary motor neuronopathy type 2B (HMN2B) [MIM:608634]. Distal hereditary motor neuronopathies constitute a heterogeneous group of neuromuscular disorders caused by selective impairment of motor neurons in the anterior horn of the spinal cord, without sensory deficit in the posterior horn. The overall clinical picture consists of a classical distal muscular atrophy syndrome in the legs without clinical sensory loss. The disease starts with weakness and wasting of distal muscles of the anterior tibial and peroneal compartments of the legs. Later on, weakness and atrophy may expand to the proximal muscles of the lower limbs and/or to the distal upper limbs.

Similarity:

Belongs to the small heat shock protein (HSP20) family.

SWISS: P04792

Gene ID: 3315

Database links:

Entrez Gene: 3315 Human

Entrez Gene: 15507 Mouse

Entrez Gene: 24471 Rat

Entrez Gene: 403979 Dog

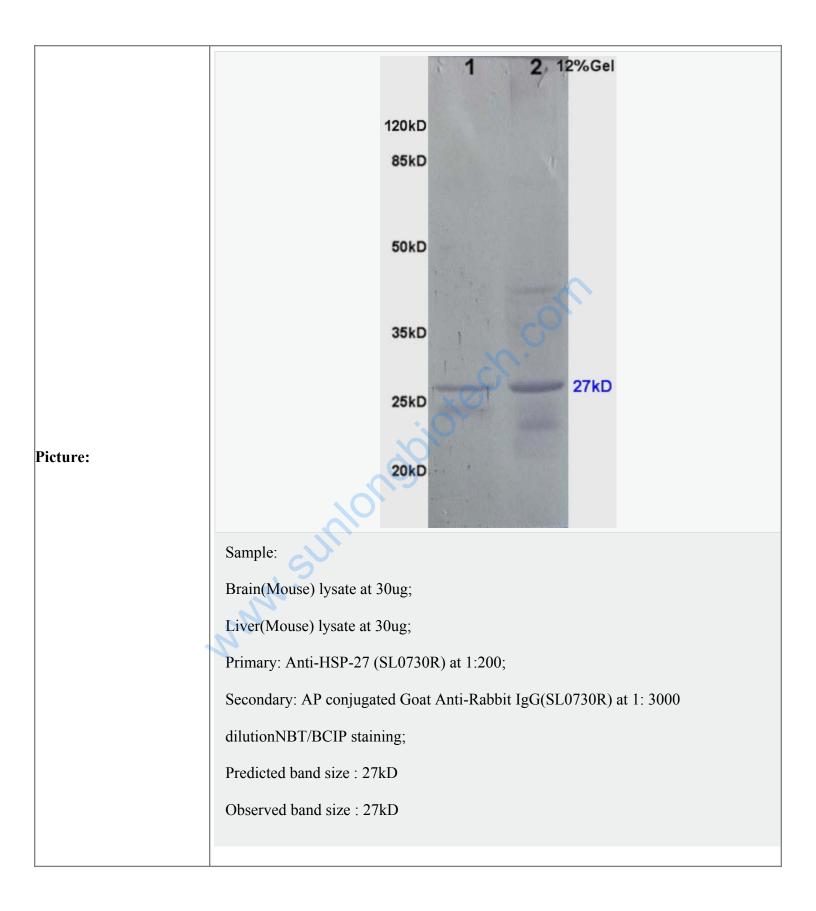
Omim: 602195 Human

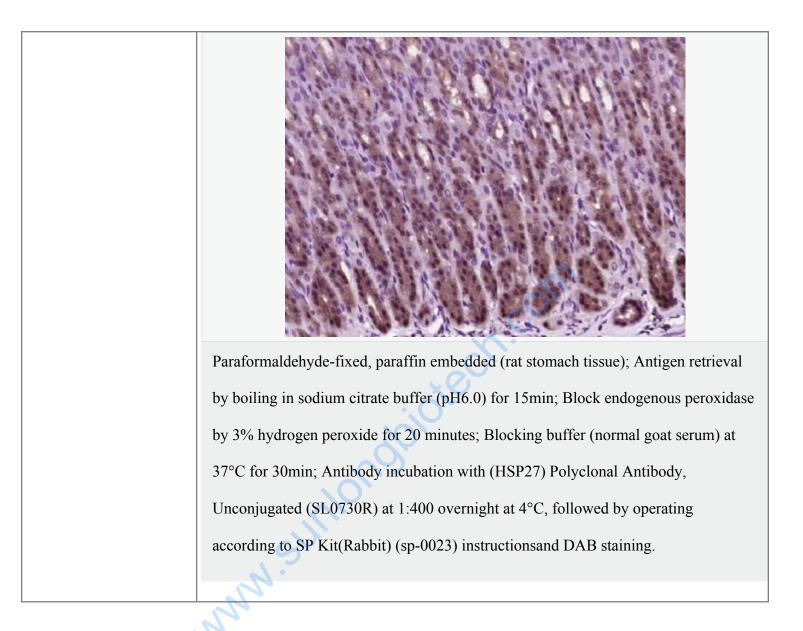
SwissProt: P42929 Dog

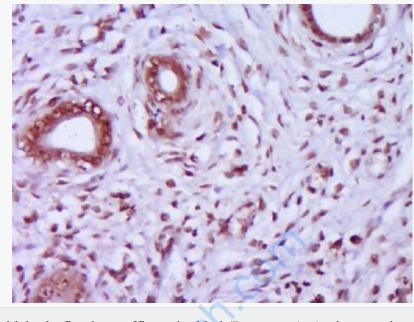
SwissProt: P04792 Human

SwissProt: P14602 Mouse

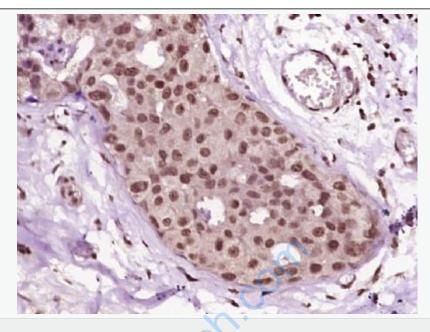
SwissProt: P42930 Rat
Unigene: 3849 Dog
Unigene: 520973 Human
Unigene: 13849 Mouse
Unigene: 3841 Rat
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 信号传导(Signaling Intermediates) 适用组织:石蜡切片 Cellular localization:胞浆和部分胞核 HSPs是细胞受应激原刺激后诱导产生的一组应激蛋白,与Tumour发生、 增殖及分化有关。按其分子量不同可分为3种类型,每组的HSPs的分布及功能有所 不同。 热休克蛋白27是人体中最常见而又最小的热休克蛋白。HSP27和其它HSPs可能与T
umour耐药和Tumour的分化程度以及病人的预后有关。
MMN SUMPLY







Paraformaldehyde-fixed, paraffin embedded (Rat uterus); 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 (HSP27) Polyclonal Antibody, Unconjugated (SL0730R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

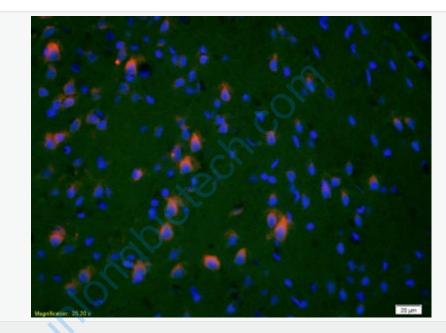


Paraformaldehyde-fixed, paraffin embedded (Human breast cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HSP27) Polyclonal Antibody, Unconjugated (SL0730R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

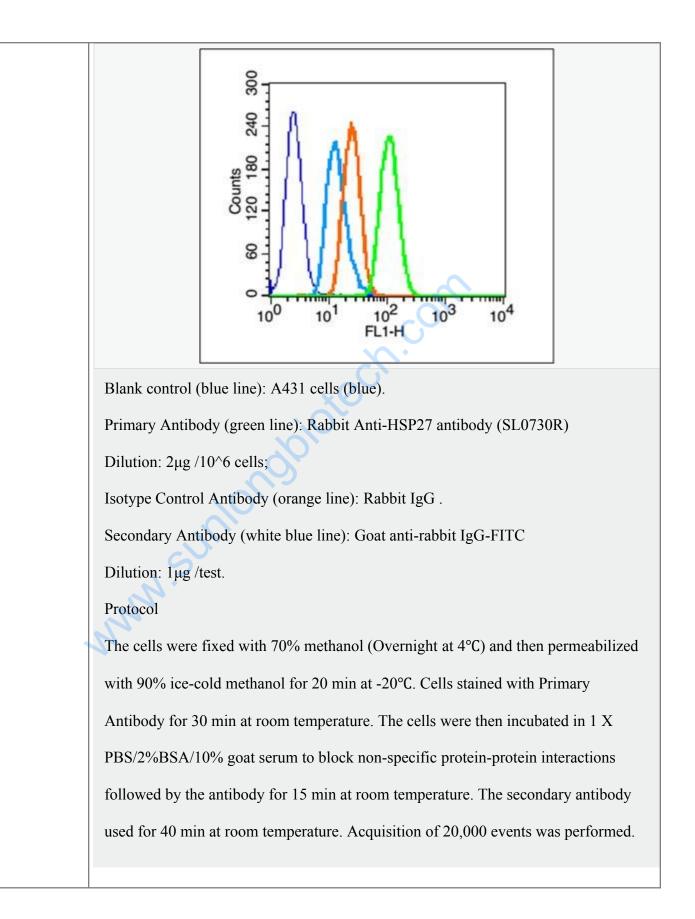


(normal goat serum, C-0005) at 37°C for 20 min;

Incubation: Anti-HSP-27 Polyclonal Antibody, Unconjugated(SL0730R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-HSP-27 Polyclonal Antibody, Unconjugated(SL0730R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0730R)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



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