

HSPA1L Rabbit pAb

Catalog # AP96228

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P34931
Other Accession	P34931
Predicted	Rat, Pig, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70375
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HSPA1L
Epitope Specificity	501-600/641
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the heat shock protein 70 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a 70kDa heat shock protein. 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. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which also encode isoforms of the 70kDa heat shock protein. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	3305
Other Names	HSP70-1L; HSP70-HOM; HSP70T; hum70t; Hsc70t; Msh5; Hsp70-3; hsp70; HS71L_BOVIN; HSPA1L; Heat shock 70 kDa protein 1L; HS71L_HUMAN; Heat shock 70 kDa protein 1-Hom (HSP70-Hom); Heat shock protein family A member 1L; HS71L_MOUSE; Heat shock 70 kDa-like protein 1; Spermatid-specific heat shock protein 70; HS71L_PIG; HS71L_RAT; Heat shock 70 kDa protein 3 (HSP70.3); heat shock protein family A (Hsp70) member 1 like; heat shock 70kD protein-like 1; heat shock 70kDa protein 1-like
Target/Specificity	Expressed in spermatids.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	HSPA1L
Function	Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release (PubMed:26865365). Positive regulator of PRKN translocation to damaged mitochondria (PubMed:24270810).
Tissue Location	Expressed in spermatids.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.