



Rabbit Anti-Human HSPA1A Polyclonal Antibody (CABT-L2029)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Heat Shock 70kDa Protein 1A (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against HSPA1A. It has been selected for its ability to recognize HSPA1A in immunohistochemical staining and western blotting.
Target	HSPA1A
Immunogen	Recombinant fragment corresponding to human HSPA1A (Asp285~Asp641)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Pig
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. 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. 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]
Keywords	HSP70-1;HSP-A1A;HSPA1;HSP70-2;HSX70

GENE INFORMATION

Gene Name	HSPA1A heat shock 70kDa protein 1A [Homo sapiens (human)]
Official Symbol	HSPA1A
Synonyms	HSPA1A; heat shock 70kDa protein 1A; HSP72; HSPA1; HSP70I; HSP70-1; HSP70-1A; HEL-S-103; heat shock 70 kDa protein 1A/1B; HSP70-1/HSP70-2; HSP70.1/HSP70.2; heat shock 70kD protein 1A; heat shock-induced protein; heat shock 70 kDa protein 1/2; epididymis secretory protein Li 103; dnaK-type molecular chaperone HSP70-1;
Entrez Gene ID	3303
Protein Refseq	NP_005336
UniProt ID	A8K5I0
Chromosome Location	6p21.3
Pathway	AUF1 (hnRNP D0) destabilizes mRNA; Antigen processing and presentation; Apoptosis Modulation by HSP70; Attenuation phase; Cellular response to heat stress; Cellular responses to stress; Direct p53 effectors; Disease;
Function	ATP binding; ATPase activity; ATPase activity, coupled; G-protein coupled receptor binding; double-stranded RNA binding; enzyme binding; heat shock protein binding; poly(A) RNA binding; protein N-terminus binding; protein binding; protein binding involved in protein folding; ubiquitin protein ligase binding; unfolded protein binding; virus receptor activity;