



## Rabbit Anti-Human HSPD1 Polyclonal Antibody (CABT-L2115)

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

## PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Heat Shock 60kD Protein 1, Chaperonin (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against HSPD1. It has been selected for its ability to recognize HSPD1 in immunohistochemical staining and western blotting.
Target	HSPD1
Immunogen	Recombinant fragment corresponding to human HSPD1 (Met1~Phe573)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
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

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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 gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Several pseudogenes have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13. [provided by RefSeq, Jun 2010]
Keywords	HSP60;GROEL;CPN60;HuCHA60;Heat Shock Protein 60;Spastic Paraplegia 13,Autosomal Dominant;60 kDa chaperonin;Mitochondrial matrix protein P1;P60 lymphocyte protein

## **GENE INFORMATION**

Gene Name	HSPD1 heat shock 60kDa protein 1 (chaperonin) [ Homo sapiens (human) ]
Official Symbol	HSPD1
Synonyms	HSPD1; heat shock 60kDa protein 1 (chaperonin); HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HSP-60; HuCHA60; 60 kDa heat shock protein, mitochondrial; chaperonin 60; 60 kDa chaperonin; heat shock protein 65; P60 lymphocyte protein; mitochondrial matrix protein P1; short heat shock protein 60 Hsp60s1;
Entrez Gene ID	3329
Protein Refseq	NP_002147
UniProt ID	A0A024R3X4
Chromosome Location	2q33.1
Pathway	Legionellosis; Metabolism of proteins; Mitochondrial protein import; RNA degradation; SIDS Susceptibility Pathways; Tuberculosis; Type I diabetes mellitus; Validated targets of C-MYC transcriptional activation;
Function	ATP binding; ATPase activity; DNA replication origin binding; chaperone binding; double-stranded RNA binding; lipopolysaccharide binding; p53 binding; poly(A) RNA binding; protein binding; single-stranded DNA binding; ubiquitin protein ligase binding; unfolded protein binding;