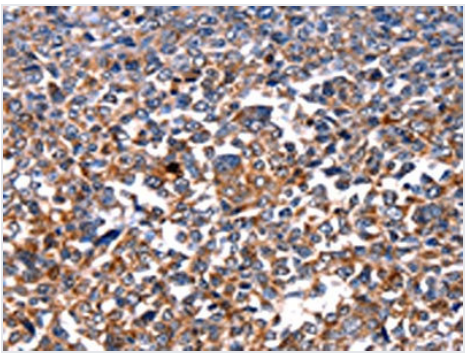
HSPD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HSPD1, Polyclonal Antibody
Full Product Name	HSPD1 Antibody
Product Gene Name	anti-HSPD1 antibody
Product Synonym Names	heat shock 60kDa protein 1 (chaperonin)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	61,055 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (198351308..198364998, complement). Location: 2q33.1
OMIM	118190
3D Structure	ModBase 3D Structure for P10809
Immunogen	Fusion protein of human HSPD1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-HSPD1 antibody	Tags & Cell Markers
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HSPD1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-HSPD1 antibody	ELISA: 1:1000-1:5000 IHC: 1:25-1:100
Related Product Information for anti-HSPD1 antibody	MBS7123813 is an antibody targeting HSPD1. Also known as HSPD1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-HSPD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC)-Paraffin of anti-HSPD1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using MBS7123813(HSPD1 Antibody) at dilution 1/15, on the right is treated with fusion protein. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSPD1. It may not necessarily be applicable to this product.

NCBI GI #	31542947
NCBI GeneID	3329
NCBI Accession #	NP_002147.2
UniProt Primary Accession #	P10809
UniProt Secondary Accession #	Q38L19; Q9UCR6; B2R5M6
UniProt Related Accession #	P10809
GenBank Nucleotide #	NM_002156.4
NCBI Official Full Name	60 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock 60kDa protein 1 (chaperonin)
NCBI Official Symbol	HSPD1
NCBI Official Synonym Symbols	HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HSP-60; HuCHA60
UniProt Protein Name	60 kDa heat shock protein, mitochondrial
UniProt Synonym Protein Names	60 kDa chaperonin; Chaperonin 60; CPN60; Heat shock protein 60; HSP-60; Hsp60; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein
Protein Family	60 kDa heat shock protein
UniProt Gene Name	HSPD1
UniProt Synonym Gene Names	HSP60; CPN60; HSP-60; Hsp60
UniProt Entry Name	CH60_HUMAN
NCBI Protein Information	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
NCBI Summary for HSPD1	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]

UniProt Comments for HSPD1	HSP60: Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix. Interacts with HRAS. Interacts with HBV protein X and HTLV-1 protein p40tax. Belongs to the chaperonin (HSP60) family. Protein type: Chaperone; Mitochondrial Chromosomal Location of Human Ortholog: 2q33.1 Cellular Component: extracellular space; protein complex; cell surface; mitochondrion; early endosome; coated pit; cytosol; secretory granule; membrane; mitochondrial matrix; cytoplasm; mitochondrial inner membrane; plasma membrane; lipopolysaccharide receptor complex; cyclin-dependent protein kinase activating kinase holoenzyme complex Molecular Function: protein binding; lipopolysaccharide binding; p53 binding; ubiquitin protein ligase binding; chaperone binding; unfolded protein binding; double-stranded RNA binding; ATPase activity; DNA replication origin binding; ATP binding; single-stranded DNA binding Biological Process: caspase activation; B cell proliferation; viral reproduction; B cell activation; protein stabilization; T cell activation; positive regulation of interleukin-12 production; positive regulation of apoptosis; protein maturation; isotype switching to IgG isotypes; positive regulation of interleukin-6 production; B cell cytokine production; positive regulation of interleukin-10 production; response to unfolded protein; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interferon-gamma production; 'de novo' protein folding; protein refolding; positive regulation of T cell mediated immune response to tumor cell; positive regulation of T cell activation; chaperone-mediated protein complex assembly; positive regulation of interferon-alpha production; negative regulation of apoptosis; positive regulation of macrophage activation Disease: Spastic Paraplegia 13, Autosomal Dominant; Leukodystrophy, Hypomyelinating, 4
Research Articles on HSPD1	**1.** Hsp60 is a key factor for protein homeostasis and cell survival, and this chaperonin is involved in various ways in the onset and progression of aging-related diseases.[review]
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