

Rabbit HSPD1 Polyclonal Antibody | anti-HSPD1 antibody

HSPD1 Antibody (Center)

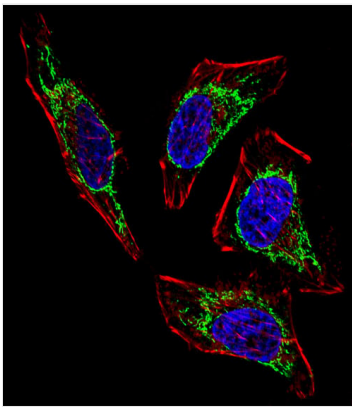
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289320	Rabbit	Human (Predicted Reactivity: Bovine, Chicken, Hamster, Mouse, Rat)	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

HSPD1; Polyclonal Antibody; HSPD1 Antibody (Center); 60 kDa heat shock protein; mitochondrial; 60 kDa chaperonin; Chaperonin 60; CPN60; Heat shock protein 60; HSP-60; Hsp60; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein; HSP60; anti-HSPD1 antibody

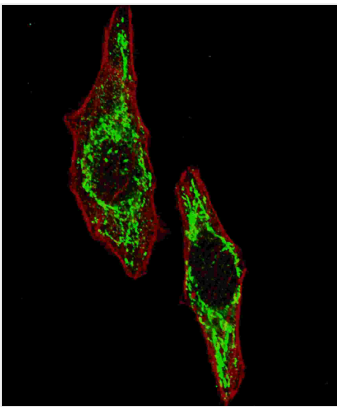
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Chicken, Hamster, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HSPD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 187-215 amino acids from the Central region of human HSPD1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	187-215
Sequence Length	573
Applicable Applications for anti-HSPD1 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



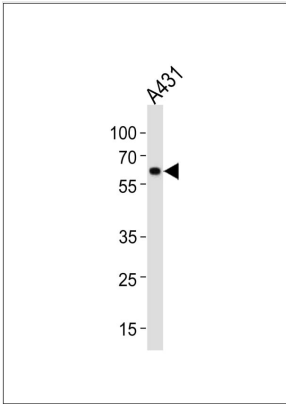
IF (Immunofluorescence)

Fluorescent confocal image of Hela cell stained with HSPD1 Antibody (Center). Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HSPD1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). HSPD1 immunoreactivity is localized to Mitochondria significantly.



IF (Immunofluorescence)

Fluorescent image of U251 cells stained with HSPD1 (Center) antibody. U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA289320 HSPD1 (Center) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). Pictures were taken on a Bioevo microscope (BZ-900, Keyence). Note the highly specific localization of the HSPD1 mainly to the mitochondria, supported by Human Protein Atlas Data (<http://www.proteinatlas.org/ENSG00000144381>).



WB (Western Blot)

HSPD1 Antibody (Center) western blot analysis in A431 cell line lysates (35ug/lane). This demonstrates the HSPD1 antibody detected the HSPD1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-HSPD1 antibody	HSPD1 is a member of the chaperonin family. This protein may function as a signaling molecule in the innate immune system. The protein is essential for the folding and assembly of newly imported proteins in the mitochondria. The protein is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter.
Product Categories/Family for anti-HSPD1 antibody	Crown Antibodies; Signal Transduction
References	References for protein: 1.Venner T.J., Singh B., Gupta R.S.DNA Cell Biol. 9:545-552(1990) 2.Hansen J.J., Bross P., Westergaard M., Nielsen M.N., Eiberg H.,Hum. Genet. 112:71-77(2003) 3.Rasmussen R.K., Ji H., Eddes J.S., Moritz R.L.,Electrophoresis 18:588-598(1997) 4.Aboulaich N., Vainonen J.P., Stralfors P., Vener A.V.Biochem. J. 383:237-248(2004) References for U251 cell line: 1. Westermarck B.; Pontén J.; Hugosson R. (1973). " Determinants for the establishment of permanent tissue culture lines from human gliomas". Acta Pathol Microbiol Scand A. 81:791-805. [PMID: 4359449]. 2. Pontén, J.,Westermarck B. (1978). " Properties of Human Malignant Glioma Cells in Vitro". Medical Biology 56: 184-193.[PMID: 359950].

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542947
NCBI GeneID	3329
NCBI Accession #	NP_002147.2; NP_955472.1
NCBI GenBank Nucleotide #	NM_002156.4
UniProt Accession #	P10809; Q38L19; Q9UCR6; B2R5M6; B7Z712
Molecular Weight	61055
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
NCBI Protein Information	60 kDa heat shock protein, mitochondrial
UniProt Protein Name	60 kDa heat shock protein, mitochondrial
UniProt Gene Name	HSPD1
UniProt Synonym Gene Names	HSP60; CPN60; HSP-60; Hsp60
UniProt Entry Name	CH60_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hspd1-antibody-western-blot-immunofluorescence-elisa/289320>