

**HSPD1 / HSP60 Antibody**  
**Goat Polyclonal Antibody**  
**Catalog # ALS12900****Specification**

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**HSPD1 / HSP60 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P10809</a>
Reactivity	<b>Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Sheep, Xenopus, Bovine, Guinea Pig, Fish, Dog, Bacteria, Drosophila</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>61kDa KDa</b>

**HSPD1 / HSP60 Antibody - Additional Information****Gene ID** 3329**Other Names**

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, HSPD1, HSP60

**Target/Specificity**

Hsp60

**Reconstitution & Storage**

Store at -20°C.

**Precautions**

HSPD1 / HSP60 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**HSPD1 / HSP60 Antibody - Protein Information****Name** HSPD1**Synonyms** HSP60**Function**

Chaperonin implicated in mitochondrial protein import and macromolecular assembly. Together with Hsp10, facilitates 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 (PubMed: [11422376](http://www.uniprot.org/citations/11422376), PubMed: [1346131](http://www.uniprot.org/citations/1346131)). The functional units of these chaperonins consist of heptameric rings of the large subunit Hsp60, which function

as a back- to-back double ring. In a cyclic reaction, Hsp60 ring complexes bind one unfolded substrate protein per ring, followed by the binding of ATP and association with 2 heptameric rings of the co-chaperonin Hsp10. This leads to sequestration of the substrate protein in the inner cavity of Hsp60 where, for a certain period of time, it can fold undisturbed by other cell components. Synchronous hydrolysis of ATP in all Hsp60 subunits results in the dissociation of the chaperonin rings and the release of ADP and the folded substrate protein (Probable).

#### Cellular Location

Mitochondrion matrix.

#### Volume

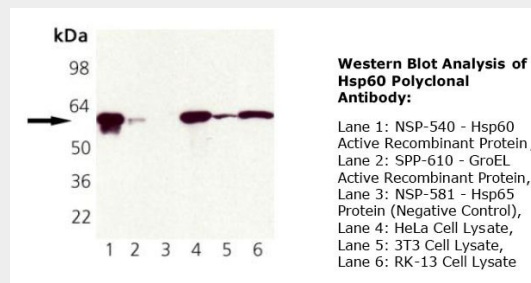
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### HSPD1 / HSP60 Antibody - Protocols

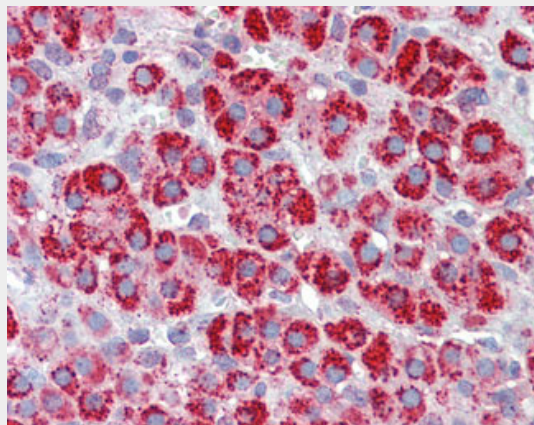
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

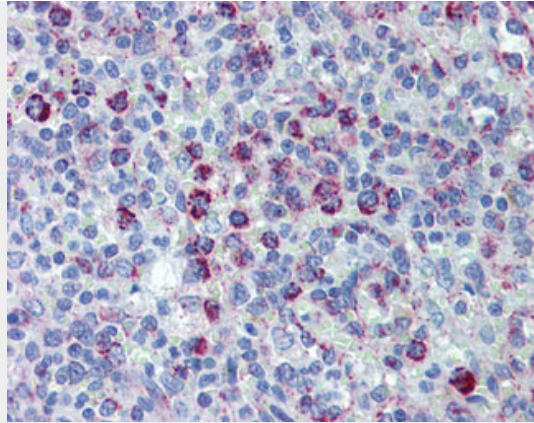
### HSPD1 / HSP60 Antibody - Images



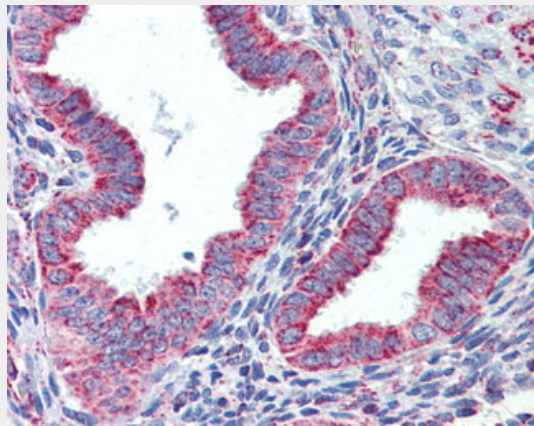
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Anti-HSPD1 antibody IHC of human adrenal.



Anti-HSPD1 antibody IHC of human spleen.



Anti-HSPD1 antibody IHC of human uterus.

### **HSPD1 / HSP60 Antibody - Background**

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.

### **HSPD1 / HSP60 Antibody - References**

- Jindal S., et al. Mol. Cell. Biol. 9:2279-2283(1989).
- Venner T.J., et al. DNA Cell Biol. 9:545-552(1990).
- Hansen J.J., et al. Hum. Genet. 112:71-77(2003).
- Tan J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
- Ota T., et al. Nat. Genet. 36:40-45(2004).