

# Anti-HSPD1 / HSP60 Antibody (clone LK1)

Mouse Anti Human Monoclonal Antibody Catalog # ALS17615

### **Specification**

### Anti-HSPD1 / HSP60 Antibody (clone LK1) - Product Information

Application WB, IHC-P, IP, FC

Primary Accession P10809

Predicted Human, Mouse, Rat, Rabbit, Hamster,

Monkey, Pig, Chicken, Sheep, Xenopus,

Bovine, Guinea Pig, Drosophila

Host Mouse Clonality Monoclonal

Isotype IgG1
Calculated MW 61055

# Anti-HSPD1 / HSP60 Antibody (clone LK1) - Additional Information

**Gene ID 3329** 

Alias Symbol HSPD1

**Other Names** 

HSPD1, 60 kDa chaperonin, CPN60, Heat shock protein 65, Heat shock protein 60, HSP-60, HSP60, HuCHA60, HLD4, HSP65, p60 lymphocyte protein, SPG13, Chaperonin 60, GROEL

**Reconstitution & Storage** 

Protein G purified

#### **Precautions**

Anti-HSPD1 / HSP60 Antibody (clone LK1) is for research use only and not for use in diagnostic or therapeutic procedures.

### Anti-HSPD1 / HSP60 Antibody (clone LK1) - Protein Information

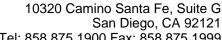
Name HSPD1

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:<a

href="http://www.uniprot.org/citations/11422376" target="\_blank">11422376</a>, PubMed:<a href="http://www.uniprot.org/citations/1346131" target="\_blank">1346131</a>). 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.

# Anti-HSPD1 / HSP60 Antibody (clone LK1) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-HSPD1 / HSP60 Antibody (clone LK1) - Images