

# Anti-HSPD1 / HSP60 Antibody (clone LK1)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17615

## Product Information

|                          |                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, IP, FC                                                                                        |
| <b>Primary Accession</b> | <a href="#">P10809</a>                                                                                   |
| <b>Predicted</b>         | Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Chicken, Sheep, Xenopus, Bovine, Guinea Pig, Drosophila |
| <b>Host</b>              | Mouse                                                                                                    |
| <b>Clonality</b>         | Monoclonal                                                                                               |
| <b>Isotype</b>           | IgG1                                                                                                     |
| <b>Clone Names</b>       | LK1                                                                                                      |
| <b>Calculated MW</b>     | 61055                                                                                                    |

## Additional Information

|                                     |                                                                                                                                                                         |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                      | 3329                                                                                                                                                                    |
| <b>Alias Symbol</b>                 | HSPD1                                                                                                                                                                   |
| <b>Other Names</b>                  | 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 |
| <b>Reconstitution &amp; Storage</b> | Protein G purified                                                                                                                                                      |
| <b>Precautions</b>                  | Anti-HSPD1 / HSP60 Antibody (clone LK1) is for research use only and not for use in diagnostic or therapeutic procedures.                                               |

## Protein Information

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>     | HSPD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b> | HSP60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Function</b> | 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="#">11422376</a> , PubMed: <a href="#">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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.