

Anti-HSPD1 / HSP60 Antibody (aa383-419, clone 4E101)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17887**Specification**

Anti-HSPD1 / HSP60 Antibody (aa383-419, clone 4E101) - Product Information

Application	WB, IHC-P, E, FC
Primary Accession	P10809
Predicted	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Chicken, Plants, Bovine, Guinea Pig, Dog, Bacteria
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	61055

Anti-HSPD1 / HSP60 Antibody (aa383-419, clone 4E101) - 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

Target/Specificity

Recognizes human Hsp60 at ~60kD. Epitope: located within aa 383-419 of human Hsp60 (aa 356-393 of the mycobacterial Hsp60). Species Crossreactivity: mouse, rat, bovine, bacteria, C. elegans, chicken, canine, guinea pig, hamster, monkey, porcine, rabb ...

Reconstitution & Storage

Protein G purified

Precautions

Anti-HSPD1 / HSP60 Antibody (aa383-419, clone 4E101) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-HSPD1 / HSP60 Antibody (aa383-419, clone 4E101) - 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

[1346131](http://www.uniprot.org/citations/1346131), PubMed: [11422376](http://www.uniprot.org/citations/11422376)). 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 (aa383-419, clone 4E101) - 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](#)

Anti-HSPD1 / HSP60 Antibody (aa383-419, clone 4E101) - Images