

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

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17887

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
Clone Names	4E101
Calculated MW	61055
Concentration (mg/ml)	1 mg/ml

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.

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 , PubMed: 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.

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