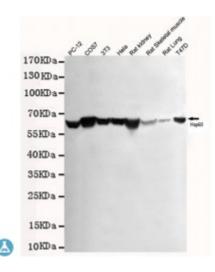
## Anti-Hsp60 antibody



**Description** Mouse monoclonal to Hsp60.

Model STJ99294

**Host** Mouse

**Reactivity** Human, Mouse, Rat, Simian

**Applications** ELISA, WB

**Immunogen** Recombinant protein corresponding to full length CPN60.

**Gene ID** 3329

Gene Symbol HSPD1

**Dilution range** WB 1:500-2000ELISA 1:10000-20000

**Specificity** This antibody detects endogenous levels of Hsp60.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

**Protein Name** 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

Molecular Weight 60kDa

**Clonality** Monoclonal

**Conjugation** Unconjugated

Isotype IgG1

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:5261OMIM:118190</u>

Alternative 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

**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 . 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

sequestration of the substrate protein in the inner cavity of Hsp60 where, for 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 Localization** Mitochondrion matrix.

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