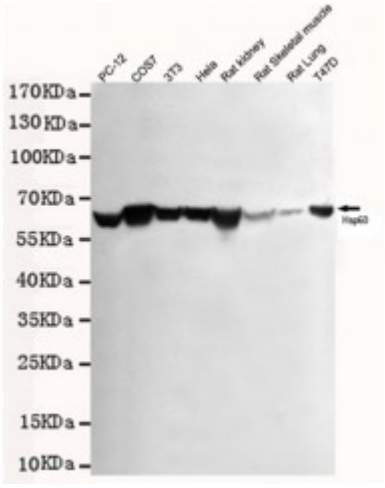
Anti-Hsp60 antibody



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	HGNC:5261OMIM:118190
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 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.