

Immunotag™ HSP60 Antibody

Antibody Specification	
Catalog No.	ITA1546
Product Description	Immunotag™ HSP60 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	HSP60
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000,IHC 1:50-1:200,IF 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human HSP60
Specificity	HSP60 Antibody detects endogenous levels of total HSP60
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	HSPD1
Accession No.	P10809
Alternate Names	60 kDa chaperonin; 60 kDa heat shock protein, mitochondrial; CH60_HUMAN; Chaperonin 60; Chaperonin, 60-KD; CPN60; fa04a05; GROEL; heat shock 60kDa protein 1 (chaperonin); Heat shock protein 1 (chaperonin); Heat shock protein 60; Heat shock protein 65; heat shock protein family D (Hsp60) member 1; HLD4; Hsp 60; HSP 65; HSP-60; HSP60; HSP65; HSPD1; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein; short heat shock protein 60 Hsp60s1; SPG13;

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Description	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:1346131, PubMed: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).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	60 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.