10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat anti-HSP60 / HSPD1 (aa333-344) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4378a

Product Information

Application	WB, IHC, IF, Pep-ELISA
Primary Accession	P10809
Other Accession	NP_002147.2
Reactivity	Human, Pig, Dog, Bovine
Host	Goat
Clonality	Polyclonal
Clone Names	HSPD1
Calculated MW	61055

Additional Information

Gene ID	3329
Other Names	HSPD1; heat shock 60kDa protein 1 (chaperonin); CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HuCHA60; SPG13; 60 kDa chaperonin; 60 kDa heat shock protein, mitochondrial; P60 lymphocyte protein; chaperonin 60; heat shock protein 65; mitochondrial matrix prote
Dilution	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	Reported variants represent identical protein: NP_955472.1, NP_002147.2.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-HSP60 / HSPD1 (aa333-344) Antibody 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'.