

Goat anti-HSP60 / HSPD1 (aa333-344) Antibody
Peptide-affinity purified goat antibody
Catalog # AF4378a

Specification

Goat anti-HSP60 / HSPD1 (aa333-344) Antibody - 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
Calculated MW	61055

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

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

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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