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HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone HSPD1/875]
Catalog # AH11468

Specification

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - Product Information

Application	**,3,4,**
Primary Accession	P10809
Other Accession	3329, 595053
Reactivity	**Human, Mouse, Rat, Hamster, Monkey, Chicken, Guinea Pig**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**60kDa KDa**

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - Additional Information

Gene ID 3329

Other 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, HSPD1, HSP60

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - 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: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).

Cellular Location
Mitochondrion matrix.

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - Images

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - Background

Recognizes a 60kDa protein, identified as the heat shock protein 60 (hsp60). A wide variety of environmental and pathophysiological stressful conditions trigger the synthesis of a family of proteins known as heat shock proteins (hsp�s), more appropriately called as stress response proteins (srp�s). hsp60 is a potential antigen in a number of autoimmune diseases. In human arthritis and in experimentally induced arthritis in animals, disease development coincides with the development of immune reactivity directed against not only bacterial hsp60, but also against its mammalian homolog.

HSP60 (Heat Shock Protein 60) (Mitochondrial Marker) Antibody - With BSA and Azide - References

Schlesinger, M.J., et al. 1982. Heat Shock: from Bacteria to Man. Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory