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Anti-HSP60 (P. Falciparum) Antibody

Rabbit Anti-P. Falciparum HSP60 (P. Falciparum) Polyclonal
Catalog No. SPC-185



Discovery through partnership | Excellence through quality

Overview

Product Name

HSP60 (P. Falciparum) Antibody

Description

Rabbit Anti-P. Falciparum HSP60 (P. Falciparum) Polyclonal

Species Reactivity

Bacteria, E. coli (Escherichia coli), Plasmodium falciparum

Applications

WB, ICC/IF

Antibody Dilution

WB (1:2000); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

P. Falciparum

Immunogen

Recombinant full length PfHSP60

Concentration

1.83 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein A purified

Clonality

Polyclonal

Specificity

Detects ~ 60kDa. Cross-reacts with E.coli HSP60, GroEl.

Cite This Product

Rabbit Anti-P. falciparum HSP60 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-185)

Certificate Of Analysis

0.9 µg/ml of SPC-185 was sufficient for detection of PfHSP60 in 20 µg of P. falciparum lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

CH60_PLAFG Antibody, Chaperonin CPN60 Antibody, mitochondrial Antibody

Research Areas

Cancer, Heat Shock

Cellular Localization

Mitochondrion, Mitochondrion Matrix

Accession Number

XM_001347402.1

Swiss Prot

P34940

Scientific Background

In both prokaryotic and eukaryotic cells, the misfolding and aggregation of proteins during biogenesis and under conditions of cellular stress are prevented by molecular chaperones. Members of the HSP60 family of heat shock proteins are some of the best characterized chaperones. HSP60, also known as Cpn60 or GroEl, is an abundant protein synthesized constitutively in the cell that is induced to a higher concentration after brief cell shock. It is present in many species and exhibits a remarkable sequence homology among various counterparts in bacteria, plants, and mammals with more than half of the residues identical between bacterial and mammalian HSP60 (1-3). Whereas mammalian HSP60 is localized within the mitochondria, plant HSP60, or otherwise known as Rubisco-binding protein, is located in plant chloroplasts.

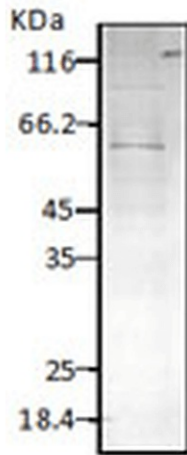
It has been indicated that these proteins carry out a very important biological function due to the fact that HSP60 is present in so many different species. The common characteristics of the HSP60s from the divergent species are i) high abundance, ii) induction with environmental stress such as heat shock, iii) homo-oligomeric structures of either 7 or 14 subunits which reversibly dissociate in the presence of Mg²⁺ and ATP, iv) ATPase activity and v) a role in folding and assembly of oligomeric protein structures (4). These similarities are supported by recent studies where the single-ring human mitochondrial homolog, HSP60 with its co-chaperonin, HSP10 were expressed in a E. coli strain, engineered so that the groE operon is under strict regulatory control. This study has demonstrated that expression of HSP60-HSP10 was able to carry out all essential in vivo functions of GroEL and its co-chaperonin, GroES (5). Another important function of HSP60 and HSP10 is their protective functions against infection and cellular stress. HSP60 has however been linked to a number of autoimmune diseases, as well as Alzheimer's, coronary artery diseases, MS, and diabetes (6-9).

References

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 6. Itoh H., et al. (2002) *Eur. J. Biochem.* 269: 5931-5938.
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Product Images



Western blot analysis of Parasite Lysates showing detection of HSP60 protein using Rabbit Anti-HSP60 Polyclonal Antibody (SPC-185). Primary Antibody: Rabbit Anti-HSP60 Polyclonal Antibody (SPC-185) at 1:1000.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.