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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HSP40 Antibody

Rabbit Anti-Human HSP40 Polyclonal
Catalog No. SPC-100

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

HSP40 Antibody

Description

Rabbit Anti-Human HSP40 Polyclonal

Species Reactivity

Human

Applications

WB, ICC/IF, IP

Antibody Dilution

WB (1:2000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Human

Immunogen

Recombinant purified human HSP40

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

Rabbit Antiserum

Storage Temperature

-20ºC, 4ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Rabbit antiserum

Clonality

Polyclonal

Specificity

Detects ~40kDa.

Cite This Product

Rabbit Anti-Human HSP40 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-100)

Certificate Of Analysis

0.5 µg/ml of SPC-100 was sufficient for detection of HSP40 in 20 µg of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

DnaJ (HSP40) homolog subfamily B member 1 Antibody, DNAJ1 Antibody, DNAJB1 Antibody, HDJ1 Antibody, HSPF1 Antibody

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_006136.1

Gene ID

3337

Swiss Prot

P25685

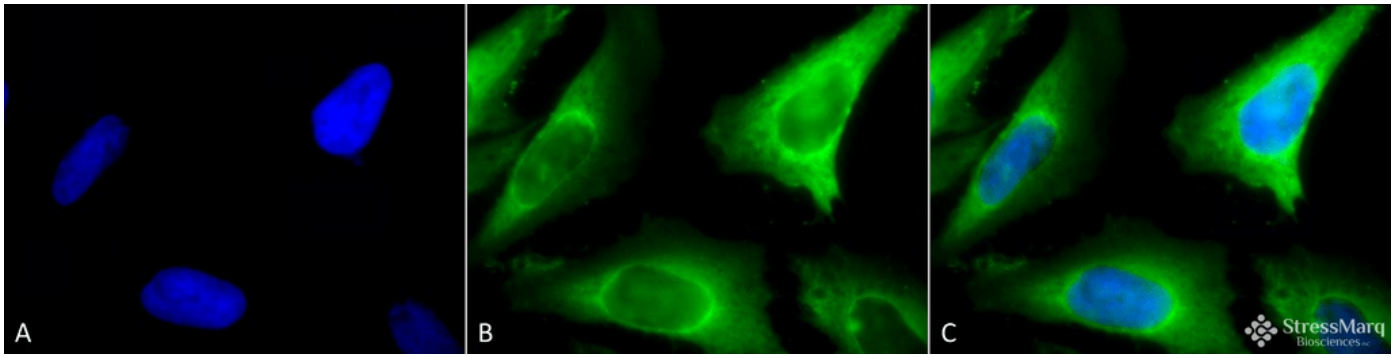
Scientific Background

DnaJ/HSP40 proteins have been preserved throughout evolution and are important for protein translation, folding, unfolding, translocation, and degradation, primarily by stimulating the ATPase activity of chaperone proteins, HSP70s. Because the ATP hydrolysis is essential for the activity of HSP70s, DnaJ/HSP40 proteins actually determine the activity of HSP70s by stabilizing their interaction with substrate proteins. DnaJ/HSP40 proteins all contain the J domain through which they bind to HSP70s.
HSP40, also known as HDJ1 (6), is a basic mammalian 40kDa heat shock protein which is not only homologous to the bacterial heat shock protein (DnaJ), but also yeast DnaJ-related proteins such as SCJ1, Sec63/Npl1, YDJ1 and SIS1 (2-5). HSP 40 is inducible by stress including heat after which is moves from the cytoplasm to the nucleus and nucleoli; an intracellular pattern similar to HSC70/HSP70, the mammalian homologues of the bacterial heat shock protein, DnaK (2).

References

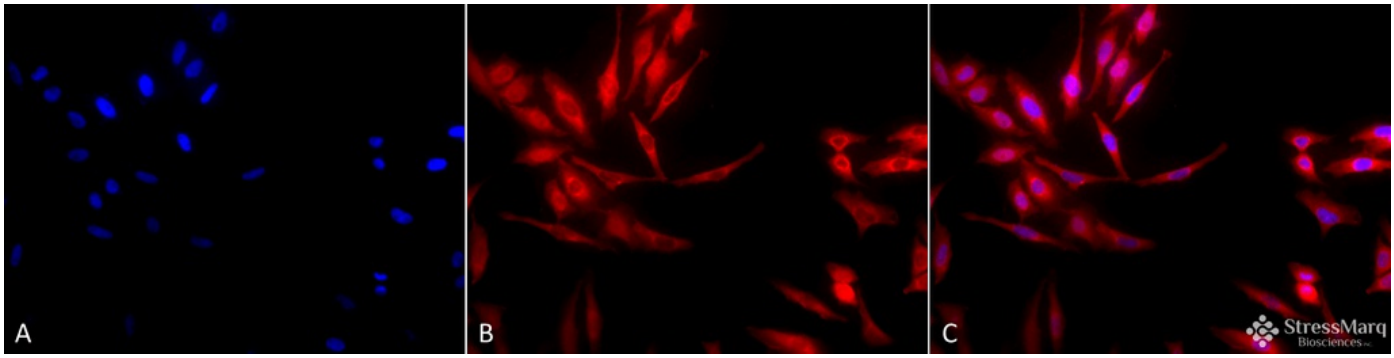
1. Melville, M. W. et al. (1997) PNAS USA, 94: 97-102.
2. Hattori, H., Liu, Y-C., Tohnai, I., Ueda, M., Kaneda, T., Kobayashi, T., Tanabe, K., and Ohtsuka, K. (1992) Cell Structure and Function 17: 77-86.
3. Ohtsuka, K. Masuda, A., Nakai, A., and Nagata, K. (1990) Biochem. Biophys. Res. Commun. 166: 642-647.
4. Bardwell, J.C.A., Tilly, K., Craig, E., King, J., Zylicz, M. and Georgopoulos, C. (1986) J. Biol. Chem. 261: 1782-1785.
5. Ohku, M., Tamura, F., Nishimura, S., and Uchida, H. (1986) J. Biol. Chem. 261: 1778-1781.
6. Ohtsuka, K. (1993) Biochem. Biophys. Res. Commun. 197: 235-240.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Hsp40 Polyclonal Antibody (SPC-100). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Hsp40 Polyclonal Antibody (SPC-100) at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp40 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

Western blot analysis of Human HeLa cell lysates showing detection of HSP40 protein using Rabbit Anti-HSP40 Polyclonal Antibody (SPC-100). Primary Antibody: Rabbit Anti-HSP40 Polyclonal Antibody (SPC-100) at 1:1000.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Hsp40 Polyclonal Antibody (SPC-100). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Hsp40 Polyclonal Antibody (SPC-100) at 1:100 for 12 hours at 4°C. Secondary Antibody: APC Goat Anti-Rabbit (red) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp40 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

Product Citations (1)

Immunoprecipitation

Regulation of SR protein hosphorylation and alternative splicing by modulating kinetic interactions of SRPK1 with molecular chaperones.

Zhong, X. et al. -2009 Genes Dev. 23, 482-495.

PubMed ID: 19240134 **Reactivity:** Human **Applications:** Immunoprecipitation

Reviews

Based on validation through cited publications.

★★★★★

StressMarq Biosciences
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