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Produktinformation

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- Diagnostik & molekulare Diagnostik
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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-HSP90 Antibody [D7A]

Mouse Anti-Chicken HSP90 Monoclonal IgG
Catalog No. SMC-137

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

HSP90 Antibody

Description

Mouse Anti-Chicken HSP90 Monoclonal IgG

Species Reactivity

Human, Mouse, Rat, Bovine, Chicken, Pig, Rabbit

Applications

WB, IHC, IP, ELISA

Antibody Dilution

WB (1:500), IP (5µg) ; optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Chicken

Immunogen

Full length protein HSP90 purified from chicken brain

Concentration

1 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 pH7.2, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

D7A

Isotype

IgG

Specificity

Recognizes 90kDa. Can isolate complexes of HSP90, Src kinase and cec37.

Cite This Product

Mouse Anti-Chicken HSP90 Monoclonal, Clone D7A (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-137)

Certificate Of Analysis

2 µg/ml was sufficient for detection of HSP90? in 20 µg of heat shocked HeLa cell lysate as well as in 100 ng of human HSP90? protein by colorimetric immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary.

Biological Description

Alternative Names

HSP86 Antibody, HSP89A Antibody, HSP90A Antibody, HSP90AA1 Antibody, HSPC1 Antibody, HSPCA Antibody, HsoCAL3 Antibody

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm, Melanosome

Accession Number

NP_001103255.1

Gene ID

9031

Swiss Prot

P11501

Scientific Background

HSP90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, HSP90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex (4-7). Despite its label of being a heat-shock protein, HSP90 is one of the most highly expressed proteins in unstressed cells (12% of cytosolic protein). It carries out a number of housekeeping functions including controlling the activity, turnover, and trafficking of a variety of proteins. Most of the HSP90- regulated proteins that have been discovered to date are involved in cell signaling (8-9). The number of proteins now known to interact with HSP90 is about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase(6). When bound to ATP, HSP90 interacts with co-chaperones Cdc37, p23, and an assortment of immunophilin-like proteins, forming a complex that stabilizes and protects target proteins from proteasomal degradation. In most cases, HSP90-interacting proteins have been shown to co-precipitate with HSP90 when carrying out immune-adsorption studies, and to exist in cytosolic heterocomplexes with it. In a number of cases, variations in HSP90 expression or HSP90 mutation has been

shown to degrade signaling function via the protein or to impair a specific function of the protein (such as steroid binding, kinase activity) in vivo. Ansamycin antibiotics, such as geldanamycin and radicicol, inhibit HSP90 function (10). Looking for more information on HSP90? Visit our new HSP90 Scientific Resource Guide at http://www.HSP90.ca.

References

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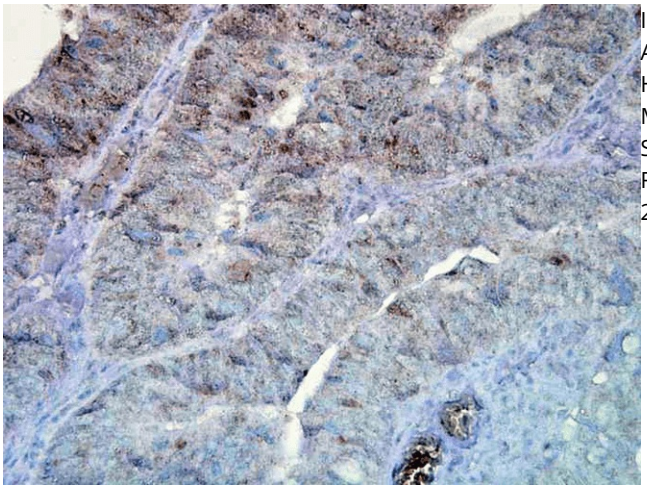
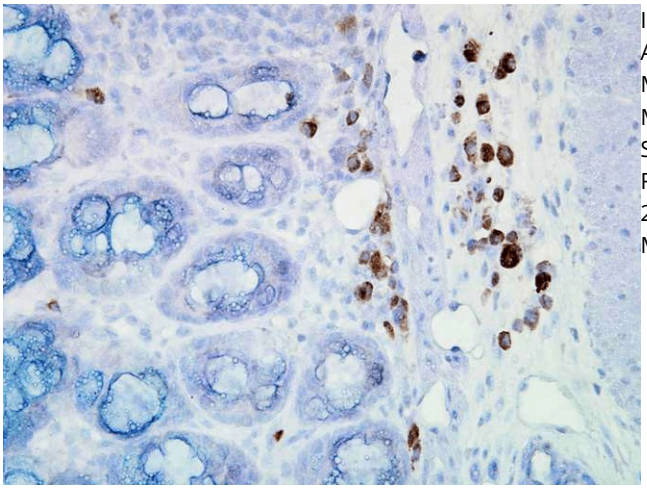
2. Lipsich L.A., Cutt J.R. and Brugge J.S. (1982) Mol. Cell Biol. 2(7): 875-880.
3. Brugge J.S., Yonemoto W., and Darrow D. (1983) Mol. Cell. Biol. 3(1): 9-19.
4. Arlander SJH, et al. (2003) J Biol Chem 278: 52572-52577.
5. Pearl H, et al. (2001) Adv Protein Chem 59: 157-186.
6. Neckers L, et al. (2002) Trends Mol Med 8:S55-S61.
7. Pratt W, Toft D. (2003) Exp Biol Med 228:111-133.
8. Pratt W, Toft D. (1997) Endocr Rev 18: 306360.
9. Pratt WB. (1998) Proc Soc Exptl Biol Med 217: 420434.
10. Whitesell L, et al. (1994) Proc Natl Acad Sci USA 91: 8324 8328.

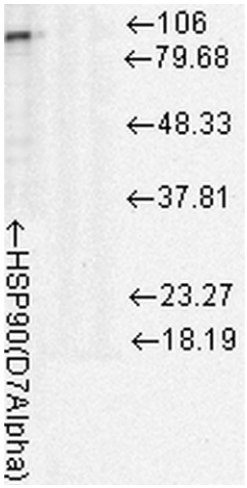
Product Images



Immunohistochemistry analysis using Mouse Anti-Hsp90 Monoclonal Antibody, Clone D7alpha (SMC-137). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody (SMC-137) at 1:100000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT. Magnification: 40x.



Immunohistochemistry analysis using Mouse Anti-Hsp90 Monoclonal Antibody, Clone D7alpha (SMC-137). Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody (SMC-137) at 1:100000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT. Localization: Inflammatory cells. Magnification: 40x.



Western Blot analysis of Rat cell lysates showing detection of Hsp90 protein using Mouse Anti-Hsp90 Monoclonal Antibody, Clone D7Alpha (SMC-137). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody (SMC-137) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (3)

Western Blot

Masseter muscle myofibrillar protein synthesis and degradation in an experimental critical illness myopathy model.

Akkad, H., Corpeno, R., Larsson L. (2014) PLoS One. 9(4): e92622.

PubMed ID: 24705179 **Reactivity:** Rat **Applications:** Western Blot

Other Citations

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Reviews

Based on validation through cited publications.

★★★★★

StressMarq Biosciences
June 14, 2016: