

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-HSP90 Beta Antibody [Hyb-K3701]

Mouse Anti-Human HSP90 beta Monoclonal IgM Catalog No. SMC-136



Overview

Purification

Product Name
HSP90 beta Antibody
Description
Mouse Anti-Human HSP90 beta Monoclonal IgM
Species Reactivity
Human, Mouse
Applications
WB, IHC, ELISA
Antibody Dilution
WB (1:1000), IHC (1:3000); optimal dilutions for assays should be determined by the user.
Host Species
Mouse
Immunogen Species
Human
Immunogen
Recombinant human HSP90beta; Specificity mapped to amino acids 185-335
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
-20℃
Shipping Temperature
Blue Ice or 4°C

Protein G Purified
Clonality
Monoclonal
Clone Number
Hyb-K3701
Isotype
lgM
Specificity
Detects 90kDa. This is a beta specific product, does not cross-react with alpha isoforms.
Cite This Product
Mouse Anti-Human HSP90 beta Monoclonal, Clone Hyb-K3701 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-136)
Certificate Of Analysis
1 μ g/ml was sufficient for detection of HSP90? in 20 μ g of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat Anti-Mouse lgG:HRP as the secondary.
Biological Description
Biological Description
Biological Description Alternative Names
Alternative Names
Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody
Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody Research Areas
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Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody Research Areas Cancer, Heat Shock Cellular Localization
Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody Research Areas Cancer, Heat Shock Cellular Localization Cytoplasm, Melanosome
Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody Research Areas Cancer, Heat Shock Cellular Localization Cytoplasm, Melanosome Accession Number
Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody Research Areas Cancer, Heat Shock Cellular Localization Cytoplasm, Melanosome Accession Number NP_031381.2
Alternative Names HSP84 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, D6S182 Antibody, FLJ26984 Antibody Research Areas Cancer, Heat Shock Cellular Localization Cytoplasm, Melanosome Accession Number NP_031381.2 Gene ID

Scientific Background

HSP90 is an abundantly and ubiquitously expressed heat shock protein. It is understood to exist in two principal forms? and?, which share 85% sequence amino acid homology. The two isoforms of HSP90 are expressed in the cytosolic compartment (1). Despite the similarities, HSP90? exists predominantly as a homodimer while HSP90? exists mainly as a monomer.(2) From a functional perspective, HSP90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex. (3-6) Furthermore, HSP90 is highly conserved between species; having 60% and 78% amino acid similarity between mammalian and the corresponding yeast and Drosophila proteins, respectively. HSP90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. 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 (7-8). The number of proteins now know

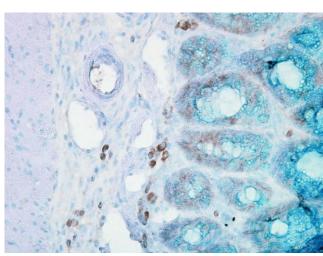
to interact with HSP90 is about 100. Target proteins include the kinases v-Src, Wee1, and c-Raf, transcriptional regulators such as p53 and steroid receptors, and the polymerases of the hepatitis B virus and telomerase.5 When bound to ATP, HSP90 interacts with co-chaperones Cdc37, p23, and an assortment 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 immunoadsorption 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 (9). Looking for more information on HSP90? Visit our new HSP90 Scientific Resource Guide at http://www.HSP90.ca.

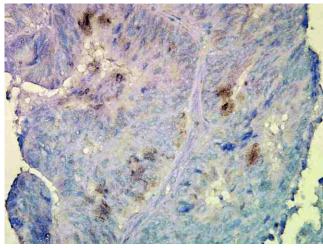
References

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- 2. Minami Y, et al. (1991), J.Biol Chem. 266: 10099-10103.
- 3. Arlander SJH, et al. (2003) J Biol Chem 278: 52572-52577.
- 4. Pearl H, et al. (2001) Adv Protein Chem 59: 157-186.
- 5. Neckers L, et al. (2002) Trends Mol Med 8: S55-S61.
- 6. Pratt W, Toft D. (2003) Exp Biol Med 228: 111-133.
- 7. Pratt W, Toft D. (1997) Endocr Rev 18: 306360.
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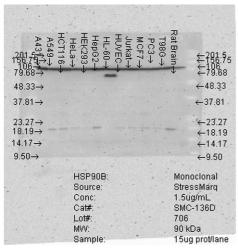
Product Images



Immunohistochemistry analysis using Mouse Anti-Hsp90 beta Monoclonal Antibody, Clone K3701 (SMC-136). Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 beta Monoclonal Antibody (SMC-136) at 1:3000 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 beta Monoclonal Antibody, Clone K3701 (SMC-136). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 beta Monoclonal Antibody (SMC-136) at 1:3000 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.



Western Blot analysis of Human Cell lysates showing detection of Hsp90 beta protein using Mouse Anti-Hsp90 beta Monoclonal Antibody, Clone K3701 (SMC-136). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp90 beta Monoclonal Antibody (SMC-136) at 1.5 ?g/mL for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (2)

Western Blot

Moderate Alcohol Induces Stress Proteins HSF1 and hsp70 and Inhibits Proinflammatory Cytokines Resulting in Endotoxin Tolerance.

Muralidharan, S. et al. (2014) J Immunol. 193(4):1975-87.

PubMed ID: 25024384 **Reactivity:** Human **Applications:** Western Blot

Extensive Gene-Specific Translational Reprogramming in a Model of B Cell Differentiation and Abl-Dependent Transformation.

Bates, J.G. et al. (2012) PLoS ONE. 7 (5): e37108.

PubMed ID: 22693568 **Reactivity:** Human **Applications:** Western Blot

Reviews

Based on validation through cited publications.



StressMarq Biosciences June 14, 2016: