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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HSP90 Antibody [AC-16]

Mouse Anti-Water Mold HSP90 Monoclonal IgG2b
Catalog No. SMC-112



Discovery through partnership | Excellence through quality

Overview

Product Name

HSP90 Antibody

Description

Mouse Anti-Water Mold HSP90 Monoclonal IgG2b

Species Reactivity

Human, Mouse, Rat, Chicken, Fall Armyworm (*Spodoptera frugiperda*), Fungi, Insect, Plant, Rabbit, Water Mold (*Achlya*), Wheat (*Triticum* spp.)

Applications

WB, IHC

Antibody Dilution

WB (1:1000), IHC (1:2000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Water Mold

Immunogen

Heat shock protein 90 from the water mold *Achlya ambisexualis*

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

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

AC-16

Isotype

IgG2b

Specificity

Detects 90kDa. This antibody is reactive with both the constitutive and the inducible form of HSP90. It does not bind to the native form and does not recognize HSP90 from E.coli or yeast.

Cite This Product

Mouse Anti-Water Mold HSP90 Monoclonal, Clone AC-16 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-112)

Certificate Of Analysis

1 µg/ml of SMC-112 was sufficient for detection of HSP90 in 20 µg of heat shocked HeLa cell lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody

Biological Description

Alternative Names

HSP84 Antibody, HSP86 Antibody, HSP90 Antibody, HSP89 Antibody, HSP90Beta Antibody, HSP90A Antibody, HSP90AA1 Antibody, HSP90AB1 Antibody, HSP90B Antibody, HSP90N Antibody, HSPC1 Antibody, HSPC2 Antibody, HSPCA Antibody, HSPCAL1 Antibody, HSPCAL4 Antibody, HSPCB Antibody, HSPN Antibody, LAP2 Antibody

Research Areas

Cancer, Heat Shock

Cellular Localization

Cytoplasm, Melanosome

Accession Number

AAM90675.1

Gene ID

4768

Swiss Prot

Q8LLI5

Scientific Background

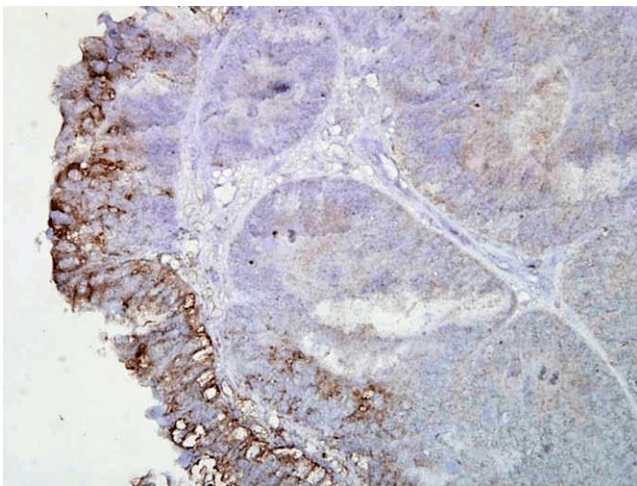
HSP90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, HSP90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex (1-4). Despite its label of 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 (5-6). 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.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 immuno-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 (7). Looking for more information on HSP90? Visit our new HSP90 Scientific Resource Guide at <http://www.HSP90.ca>.

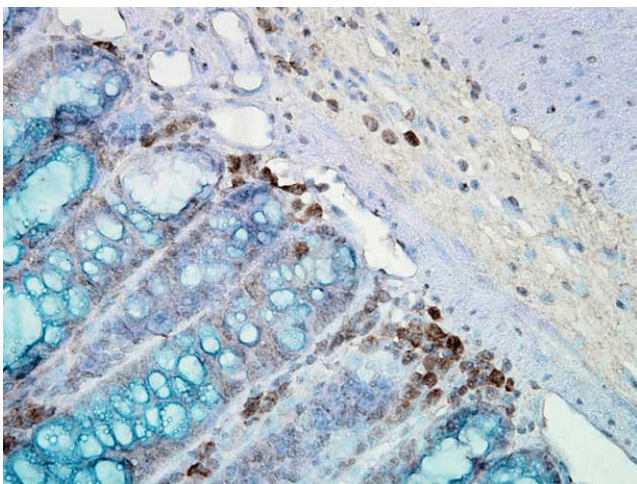
References

1. Arlander SJH, et al. (2003) J Biol Chem 278: 52572-52577.
2. Pearl H, et al. (2001) Adv Protein Chem 59:157-186.
3. Neckers L, et al. (2002) Trends Mol Med 8:S55-S61.
4. Pratt W, Toft D. (2003) Exp Biol Med 228:111-133.
5. Pratt W, Toft D. (1997) Endocr Rev 18: 306360.
6. Pratt WB. (1998) Proc Soc Exptl Biol Med 217: 420434.
7. Whitesell L, et al. (1994) Proc Natl Acad Sci USA 91: 83248328.

Product Images



Immunohistochemistry analysis using Mouse Anti-Hsp90 Monoclonal Antibody, Clone AC-16 (SMC-112). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody (SMC-112) at 1:2000 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.



Immunohistochemistry analysis using Mouse Anti-Hsp90 Monoclonal Antibody, Clone AC-16 (SMC-112). Tissue: inflamed colon. Species: Mouse. Fixation: Formalin. Primary Antibody: Mouse Anti-Hsp90 Monoclonal Antibody (SMC-112) at 1:2000 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.

Product Citations (2)

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

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

Reviews

There are no reviews yet.