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## Produktinformation



Forschungsprodukte & Biochemikalien



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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 Complex Antibody [8D3]

Mouse Anti-Human HSP90 complex Monoclonal IgM  
Catalog No. SMC-109



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

HSP90 complex Antibody

### Description

Mouse Anti-Human HSP90 complex Monoclonal IgM

### Species Reactivity

Human, Mouse, Rat, Rabbit

### Applications

IP, ICC/IF

### Antibody Dilution

ICC/IF (1:100), IP (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Human

### Immunogen

Ah receptor (Aryl hydrocarbon receptor)

### 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

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### Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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PEG Purified

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### Clonality

Monoclonal

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### Clone Number

8D3

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### Isotype

IgM

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### Specificity

Detects 90kDa. Co-immunoprecipitates HSP90 complexes, including HSP70, Hop, Ah receptors, glucocorticoid receptors, heme-regulated eukaryotic initiation factor 2? (eIF-2?) kinase (HRI).

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### Cite This Product

Mouse Anti-Human HSP90 Monoclonal, Clone 8D3 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-109)

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### Certificate Of Analysis

Goat anti-mouse IgM was used to bind 25 µl of protein G-Sepharose. SMC-109 IgM from 0.5 ml of high speed supernatant medium was loaded onto the IgG resin and incubated with 100 µl of rabbit reticulocyte lysate for 30 min. at 30C. After washing (4X1 ml), bound proteins were resolved on SDS PAGE, including HSP90, HSP70 and Hop.

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## Biological Description

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### Alternative Names

HSP84 Antibody, HSP90 Antibody, HSP90 beta Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody, Heat shock protein HSP 90-beta Antibody, HSP 90 Antibody, Heat shock 84 kDa Antibody, HSP 84 Antibody, HSP84 Antibody, HSP90AB1 Antibody, HSP90B Antibody, HSPC2 Antibody, HSPCB Antibody

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### Research Areas

Cancer, Heat Shock

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### Cellular Localization

Cytoplasm, Melanosome

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### Accession Number

NP\_031381.2

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### Gene ID

3326

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### Swiss Prot

P08238

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### Scientific Background

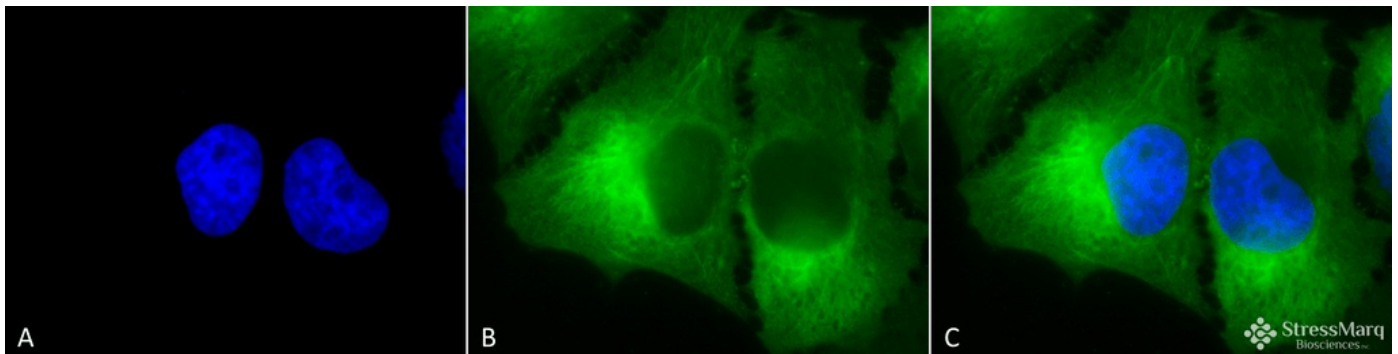
HSP90 is a highly conserved and essential stress protein that is expressed in all eukaryotic cells. From a functional perspective, HSP90 participates in the folding, assembly, maturation, and stabilization of specific proteins as an integral component of a chaperone complex (1-4). Despite its label of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

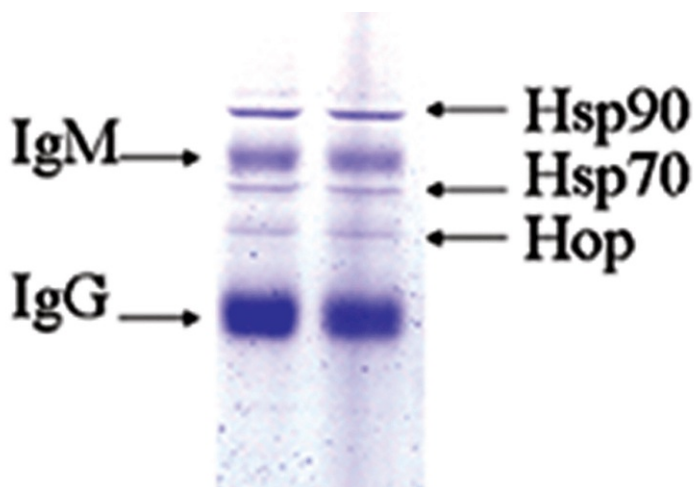
## References

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.
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9. Dalman, F. C. et al. (1989) *JBC* 264(33): 19815-19821
10. Uma, S. et al. (1997) *JBC* 272(17): 11648-11656.

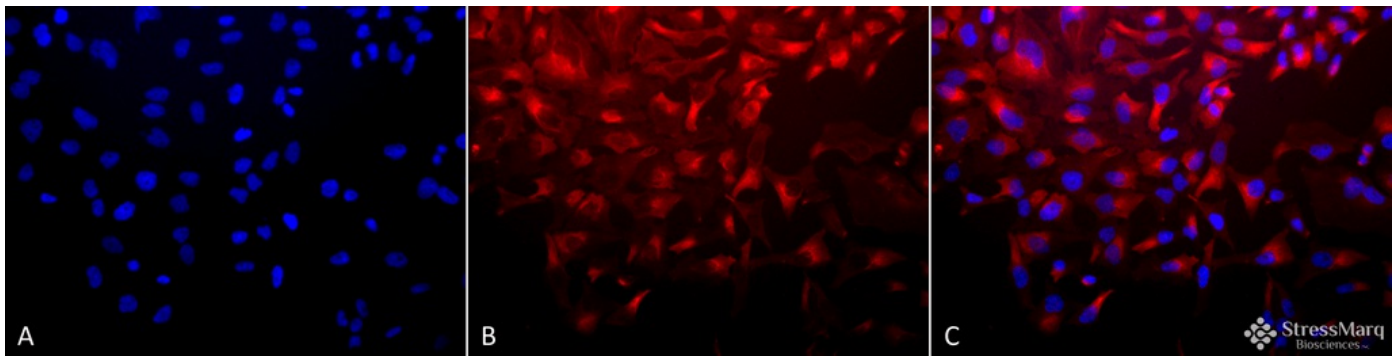
## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp90 complex Monoclonal Antibody, Clone 8D3 (SMC-109). Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsp90 complex Monoclonal Antibody (SMC-109) at 1:100 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Mouse (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp90 complex Antibody. (C) Composite.



Immunoprecipitation analysis using Mouse Anti-Hsp90 complex Monoclonal Antibody, Clone 8D3 (SMC-109). Tissue: reticulocyte lysate. Species: Rabbit. Primary Antibody: Mouse Anti-Hsp90 complex Monoclonal Antibody (SMC-109) at 1:1000.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp90 complex Monoclonal Antibody, Clone 8D3 (SMC-109). Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsp90 complex Monoclonal Antibody (SMC-109) at 1:100 for 12 hours at 4°C. Secondary Antibody: APC Goat Anti-Mouse (red) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Melanosome. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp90 complex Antibody. (C) Composite.

## Product Citations (2)

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### Western Blot

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#### **Ganetespib (STA-9090), a Nongeldanamycin HSP90 Inhibitor, Has Potent Antitumour Activity in In Vitro and In Vivo Models of Non-Small Cell Lung Cancer.**

Shimamura, T. et al. (2012) Clin Cancer Res. 18, 4973-4985.

**PubMed ID:** 22806877 **Reactivity:** Human **Applications:** Western Blot

### Immunoprecipitation

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#### **Macrocycles that inhibit the binding between heat shock protein 90 and TPR-containing proteins.**

Ardi, V.C., Alexander, L.D., Johnson, V. and McAlpine S.R. (2011) ACS Chem Biol. 6 (12): 1357-1366.

**PubMed ID:** 21950602 **Reactivity:** Human **Applications:** Immunoprecipitation

## Reviews

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Based on validation through cited publications.



**StressMarq Biosciences**  
June 14, 2016: