

**HSP90 complex Antibody**  
**Hsp90 complex Antibody, Clone 8D3**  
**Catalog # ASM10014**

**Specification**

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**HSP90 complex Antibody - Product Information**

Application	<b>IP</b>
Primary Accession	<a href="#">P08238</a>
Other Accession	<a href="#">NP_031381.2</a>
Host	<b>Mouse</b>
Isotype	<b>IgM</b>
Reactivity	<b>Human, Mouse, Rat, Rabbit</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Human HSP90 complex Monoclonal IgM

**Target/Specificity**

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

**Other 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

**Immunogen**

Ah receptor (Aryl hydrocarbon receptor)

**Purification**

PEG Purified

Storage **-20°C**

**Storage Buffer**

PBS, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

Goat anti-mouse IgM was used to bind 25  $\mu$ l 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  $\mu$ l 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.

**Cellular Localization**

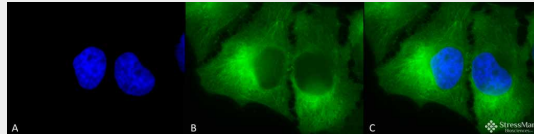
Cytoplasm | Melanosome

**HSP90 complex Antibody - Protocols**

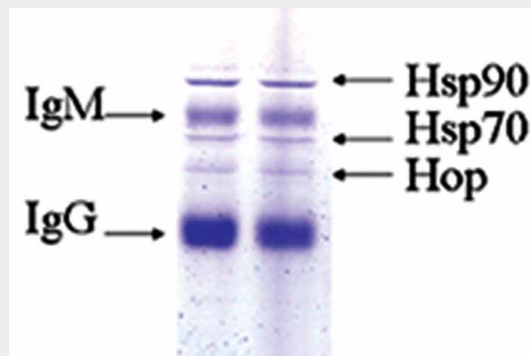
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

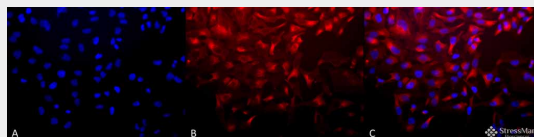
### HSP90 complex Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp90 complex Monoclonal Antibody, Clone 8D3 (ASM10014). Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsp90 complex Monoclonal Antibody (ASM10014) 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 (ASM10014). Tissue: reticulocyte lysate. Species: Rabbit. Primary Antibody: Mouse Anti-Hsp90 complex Monoclonal Antibody (ASM10014) at 1:1000.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp90 complex Monoclonal Antibody, Clone 8D3 (ASM10014). Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsp90 complex Monoclonal Antibody (ASM10014) 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.

### HSP90 complex Antibody - 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 (1-2% 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 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). For more information visit our HSP90 Scientific Resource Guide at <http://www.HSP90.ca>.

### **HSP90 complex Antibody - 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: 306-360.
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7. Whitesell L, et al. (1994) *Proc Natl Acad Sci USA* 91: 8324-8328.
8. Perdew, G. H. (1988) *JBC* 263 (27): 13802-13805
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