



## Polyclonal Anti- Heat shock protein 90, *HSP90* (Sepharose Bead Conjugate)

**Catalogue No.** PA1339-S

**Lot No.** 0131012123999

**Ig type:** rabbit IgG

**Size:** 100µg/vial

**Specificity**

Human, rat, mouse.. No cross reactivity with other proteins.

**Recommended application**

(Immunoprecipitation(IP))

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminal of human HSP90 (676-693 aa), identical to the related mouse and rat sequence.

**Purification**

Immunogen affinity purified.

**Formulation**

50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

**Storage**

Store at 4°C for frequent use.

**Description:**

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays

### BACKGROUND

Hsp90 (heat shock protein 90) is a molecular chaperone and is one of the most abundant proteins expressed in cells.[1] It is a member of the heat shock protein family which is upregulated in response to stress. Hsp90 is found in bacteria and all branches of eukarya, but it is apparently absent in archaea.[2] Cytoplasmic Hsp90 is essential for viability under all conditions in eukaryotes, the bacterial homologue HtpG is dispensable under non-heat stress conditions.[3]The function of Hsp90 includes assisting in protein folding, cell signaling, and tumor repression. This protein was first isolated by extracting proteins from stressed cells. These cells were stressed by heating, dehydrating or by other means, all of which caused the cell's proteins to begin to denature.[4] Researchers later realized that Hsp90 has other essential functions in unstressed cells.

### REFERENCE

- 1、 Csermely P, Schnaider T, Soti C, Prohászka Z, Nardai G (August 1998). "The 90-kDa molecular chaperone family: structure, function, and clinical applications. A comprehensive review". *Pharmacol. Ther.* 79 (2): 129–68.
- 2、 Chen B, Zhong D, Monteiro A (2006). "Comparative genomics and evolution of the Hsp90 family of genes across all kingdoms of organisms". *BMC Genomics* 7: 156..
- 3、 Thomas JG, Baneyx F (October 1998). "Roles of the Escherichia coli small heat shock proteins IbpA and IbpB in thermal stress management: comparison with ClpA, ClpB, and HtpG In vivo". *J. Bacteriol.* 180 (19): 5165–72.
- 4、 Prodromou C, Panaretou B, Chohan S, Siligardi G, O'Brien R, Ladbury JE, Roe SM, Piper PW, Pearl LH (August 2000). "The ATPase cycle of Hsp90 drives a molecular 'clamp' via transient dimerization of the N-terminal domains". *EMBO J.* 19 (16): 4383–92.

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