



## Product Information Sheet

### Polyclonal Anti- Heat shock protein HSP 90 beta, *HSP90B*

**Catalogue No.** PA1340

**Lot No.** 0131012034099

**Ig type** rabbit IgG

**Size** 100µg/vial

#### Specificity

Human, rat, mouse

No cross reactivity with other proteins.

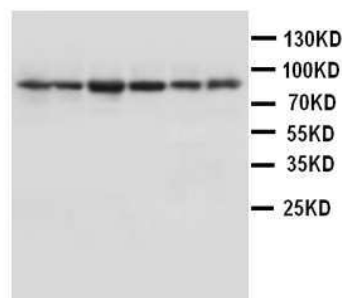
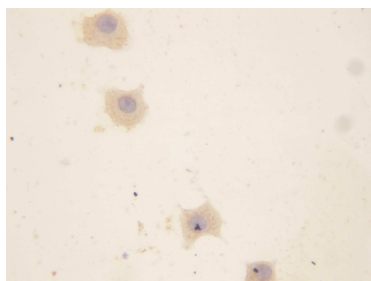
#### Recommended application

*Western blot*

*Immunohistochemistry(P)*

*Immunohistochemistry(F)*

*Immunocytochemistry*



Lane 1 : Rat lung tissue Lysate  
Lane 2 : Rat brain tissue Lysate  
Lane 3 : MM453 Whole Cell Lysate  
Lane 4 : HeLa Whole Cell Lysate  
Lane 5 : Raji Whole Cell Lysate  
Lane 6 : MCF-7 Whole Cell Lysate

#### Immunogen

A synthetic peptide corresponding to a sequence at the middle region of human HSP90B (687-700 aa), identical to the related mouse and rat sequence.

#### Purity

Immunogen affinity purified.

#### Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	1µg/ml	Hu, Rat, Ms	-	By Heat
IHC-F	1µg/ml	Rat	-	-
ICC	1µg/ml	Hu	-	-

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

#### Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

#### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: Info@antageneinc.com**

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

## BACKGROUND

Heat shock protein HSP 90-beta is a protein that in humans is encoded by the HSP90AB1 gene.<sup>[1][2][3]</sup> Hsp90 $\beta$  is mapped to chromosome 12q23.3.<sup>4</sup> The function of Hsp90 $\beta$  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.<sup>5</sup>

## REFERENCE

- 1、Rebbe NF, Hickman WS, Ley TJ, Stafford DW, Hickman S (Oct 1989). "Nucleotide sequence and regulation of a human 90-kDa heat shock protein gene". *J Biol Chem* 264 (25): 15006–11.
- 2、Chen B, Piel WH, Gui L, Bruford E, Monteiro A (Dec 2005). "The HSP90 family of genes in the human genome: insights into their divergence and evolution". *Genomics* 86 (6): 627–37.
- 3、"Entrez Gene: HSP90AB1 Heat shock protein 90kDa alpha (cytosolic), class B member
- 4、Chen, B., Piel, W. H., Gui, L., Bruford, E., Monteiro, A. The HSP90 family of genes in the human genome: insights into their divergence and evolution. *Genomics* 86: 627-637, 2005.
- 5、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..