Polyclonal Anti- Heat shock protein 90, *HSP90*

Catalogue No. PA1339

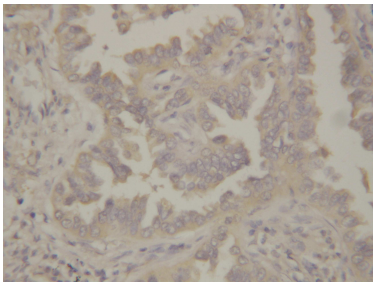
Lot No. 0131012123999

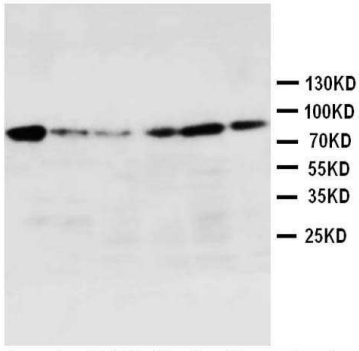
Ig type rabbit IgG

Size 100μg/vial

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

Recommended application
Western blot
Immunohistochemistry(P)





Lane 1 : Rat Testicular tissue Lysate
Lane 2 : CEM Whole Cell Lysate
Lane 3 : HeLa Whole Cell Lysate
Lane 4 : SMMC Whole Cell Lysate
Lane 5 : HT1080 Whole Cell Lysate
Lane 6 : COLO320 Whole Cell Lysate

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.

Purity
Immunogen affinity purified.

Application

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

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_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

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:
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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.