www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

HSP90AA1

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF IP RIP

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:100 IF 1:20 - 1:50 IP 1:20 - 1:50 RIP 1:20 - 1:50

Calculated MW:90kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human HSP90AA1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

hj

Synonym:

HSP90AA1;FLJ31884;HSP86;HSP89A;HSP90A;HSP90N;HSPC1;HSPCA;HSPCAL1;HSPCAL4; HSPN;Hsp89;Hsp90;LAP2 ;

Catalog #:A0365

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:3320

Isotype: IgG

Swiss Prot:P07900

Purity: Affinity purification

For research use only.

Background:

HSP70 and HSP90 are molecular chaperones expressed constitutively under normal conditions to maintain protein homeostasis and are induced upon environmental stress (1). Both HSP70 and HSP90 are able to interact with unfolded proteins to prevent irreversible aggregation and catalyze the refolding of their substrates in an ATP- and co-chaperone-dependent manner (1). HSP70 has a broad range of substrates including newly synthesized and denatured proteins, while HSP90 tends to have a more limited subset of substrates, most of which are signaling molecules. HSP70 and HSP90 often function collaboratively in a multi-chaperone system, which requires a minimal set of co-chaperones: HSP40, Hop, and p23 (2,3). The co-chaperones either regulate the intrinsic ATPase activity of the chaperones or recruit chaperones to specific substrates or subcellular compartments (1,4). When the ubiquitin ligase CHIP associates with the HSP70/HSP90 complex as a cofactor, the unfolded substrates are subjected to degradation by the proteasome (4). The biological functions of HSP70/HSP90 extend beyond their chaperone activity. They are essential for the maturation and inactivation of nuclear hormones and other signaling molecules (1,3). They also play a role in vesicle formation and protein trafficking (2).

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