

HSP 90 α

Cat.No. 380 003; Polyclonal rabbit antibody, 50 μ g specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μ g specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μ l H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: 1 : 500 IHC: yes IHC-P/FFPE: 1 : 500
Immunogen	Synthetic peptide corresponding to AA 701 to 717 from human HSP90 α (UniProt Id: P07900)
Reactivity	Reacts with: human (P07900), rat (P82995), mouse (P07901). Other species not tested yet.
Specificity	Specific for HSP 90 α . (K.D. verified)
matching control	380-OP

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Heat shock proteins 90 (HSP 90) are molecular chaperones. Two isoforms (α and β) have been described so far. They promote the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. They undergo a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. HSP 90s interact dynamically with various co-chaperones that modulate their substrate recognition, ATPase cycle and chaperone function.

Selected General References

From Conformation to Interaction: Techniques to Explore the Hsp70/Hsp90 Network.
Batista FA, Gava LM, Pinheiro GM, Ramos CH, Borges JC
Current protein & peptide science (2015) 16(8): 735-53.

Hsp90, the concertmaster: tuning transcription.
Khurana N, Bhattacharyya S
Frontiers in oncology (2015) 5: 100.

The cellular world according to Hsp90.
Richter K, Hendershot LM, Freeman BC
Nature structural & molecular biology (2007) 14(2): 90-4.

Analysis of native forms and isoform compositions of the mouse 90-kDa heat shock protein, HSP90.
Minami Y, Kawasaki H, Miyata Y, Suzuki K, Yahara I
The Journal of biological chemistry (1991) 266(16): 10099-103.

Stage and lineage-regulated expression of two hsp90 transcripts during mouse germ cell differentiation and embryogenesis.
Gruppi CM, Zakeri ZF, Wolgemuth DJ
Molecular reproduction and development (1991) 28(3): 209-17.

Mapping the HSP90 binding region of the glucocorticoid receptor.
Howard KJ, Holley SJ, Yamamoto KR, Distelhorst CW
The Journal of biological chemistry (1990) 265(20): 11928-35.

Two mammalian heat shock proteins, HSP90 and HSP100, are actin-binding proteins.
Koyasu S, Nishida E, Kadowaki T, Matsuzaki F, Iida K, Harada F, Kasuga M, Sakai H, Yahara I
Proceedings of the National Academy of Sciences of the United States of America (1986) 83(21): 8054-8.