

Product datasheet for **AP06175PU-S**

HSP90AA1 / HSP90 alpha Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | ELISA, IHC, WB |
| Recommended Dilution: | Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide, corresponding to amino acids 671-720 of Human HSP90 α . |
| Specificity: | This antibody detects endogenous levels of HSP90A/HSP86 protein. |
| Formulation: | Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity Chromatography using epitope-specific immunogen |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | ~85, 90 kDa |
| Gene Name: | heat shock protein 90kDa alpha family class A member 1 |
| Database Link: | Entrez Gene 3320 Human P07900 |



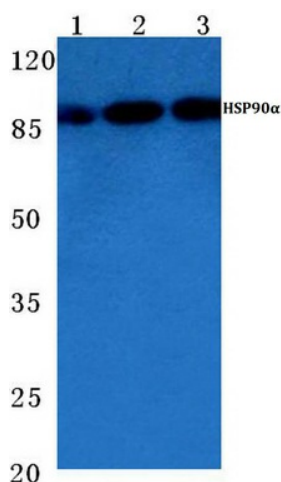
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Background:

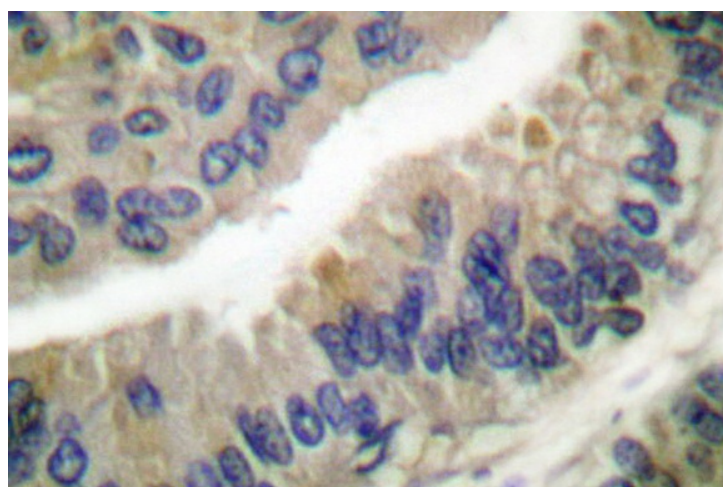
In mammalian cells there are at least two Hsp90 isoforms, Hsp90a and Hsp90b which are encoded by separate genes. These ubiquitous and highly conserved proteins account for 1-2% of all cellular proteins in most cells. Hsp90 is part of the cells powerful network of chaperones to fight the deleterious consequences of protein unfolding caused by nonphysiological conditions. However, in the absence of stress, Hsp90 is a necessary component of fundamental cellular processes such as hormone signaling and cell cycle control. In this context several key regulatory proteins such as steroid receptors, cell cycle kinases involved in signal transduction and p53 have been identified as substrates of Hsp90. It has been suggested that Hsp90 acts as a capacitor for morphological evolution by buffering widespread variation, which may affect morphogenic pathways.

Synonyms:

HSP90A, HSPC1, HSPCA, Heat shock 86 kDa, HSP86, NY-REN-38, Heat shock protein HSP 90-alpha

Product images:

Western blot (WB) analysis of HSP90 antibody (Cat.-No.: [AP06175PU-N]) at 1/500 dilution Lane 1:MCF-7 cell lysate Lane 2:Mouse brain t



Immunohistochemistry analysis of HSP90A/HSP86 antibody (Cat.-No [AP06175PU-N]) in paraffin-embedded human lung carcinoma tissue.