

## Product datasheet for **AP02783PU-S**

### **HSP90AB1 Rabbit Polyclonal Antibody**

#### **Product data:**

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IF, IHC, WB  |
| Recommended Dilution: | <b>Western Blot:</b> 1/500 - 1/1000.<br><b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/100.<br><b>Immunofluorescence:</b> 1/100 - 1/200.                                     |
| Reactivity:           | Human, Mouse, Rat  |
| Host:                 | Rabbit   |
| Clonality:            | Polyclonal   |
| Immunogen:            | The antiserum was produced against synthesized non-phosphopeptide derived from human HSP90B around the phosphorylation site of serine 254 (V-G-SP-D-E)                                   |
| Specificity:          | HSP90B antibody detects endogenous levels of total HSP90B protein.   |
| Formulation:          | PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol.<br>State: Aff - Purified<br>State: Liquid purified IgG fraction |
| Concentration:        | lot specific   |
| Purification:         | Affinity chromatography  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody at -20°C.<br>Avoid repeated freezing and thawing.   |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | heat shock protein 90kDa alpha family class B member 1   |
| Database Link:        | <a href="#">Entrez Gene 3326 Human P08238</a>  |



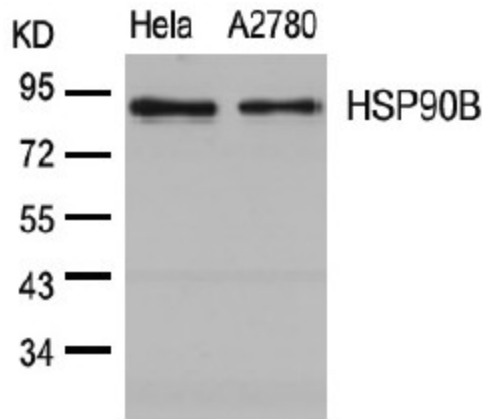
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**Background:**

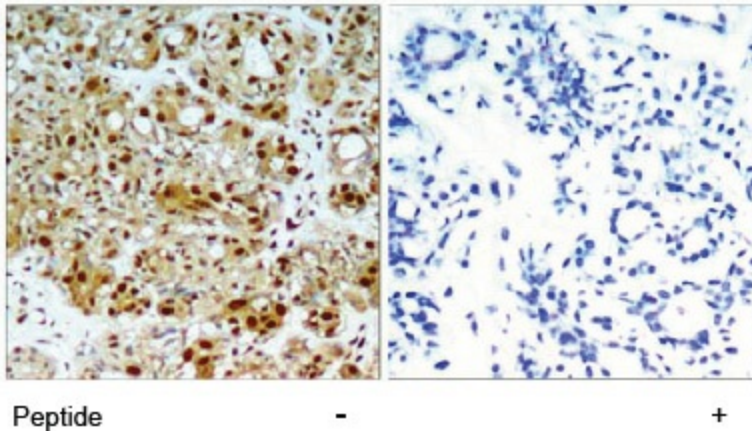
In mammalian cells there are at least two Hsp90 isoforms, Hsp90a and Hsp90b which are encoded by separate genes. These ubiquitous and highly conserved proteins account for 1-2% of all cellular proteins in most cells. Hsp90 is part of the cells powerful network of chaperones to fight the deleterious consequences 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:**

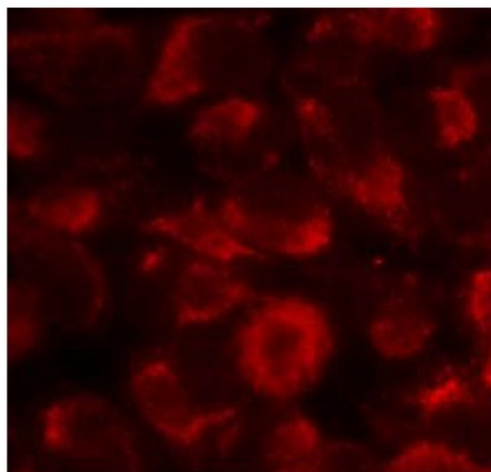
HSP90B, HSPC2, HSPCB, Heat shock protein HSP 90-beta, Heat shock 84 kDa, HSP84

**Product images:**


Western blot analysis of extracts from HeLa and A2780 cells using HSP90B antibody



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using HSP90B antibody.



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining using HSP90B antibody