

## Product datasheet for **AP20848PU-M**

### **HSP27 (HSPB1) pSer82 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p-HSP27 protein only when phosphorylated at Ser82.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody 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:	~ 27 kDa
Gene Name:	heat shock protein family B (small) member 1
Database Link:	<u><a href="#">Entrez Gene 15507 Mouse</a></u> <u><a href="#">Entrez Gene 24471 Rat</a></u> <u><a href="#">Entrez Gene 3315 Human</a></u> <u><a href="#">P04792</a></u>



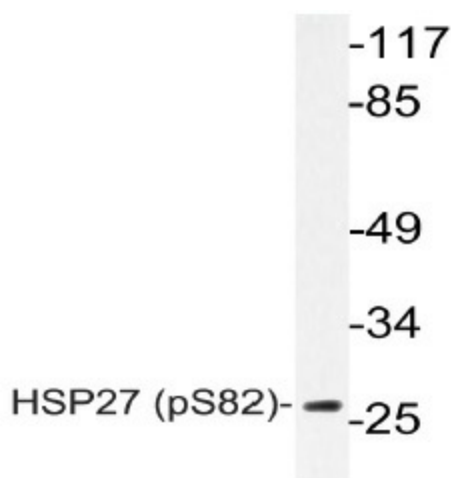
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**Background:** HSP 27 is a constitutively expressed cytoplasmic protein that co-localizes to the nucleus upon stress-induced insult. The intracellular concentration of HSP 27 increases several-fold after heat shock and other metabolic stresses, and is closely associated with the acquisition of thermotolerance. In addition to heat shock, cytokines and hormones are among the factors that stimulate the synthesis of HSP 27. MAP kinase-activated protein kinase-2 phosphorylates HSP 27 on Serine residues Ser 15, Ser 78 and Ser 82, which are phosphorylated in vivo in response to growth factors and heat shock. Ser 15, Ser 78 and Ser 82 occur in the sequence motif RXXS, which is recognized by ribosomal protein S6 kinase II.

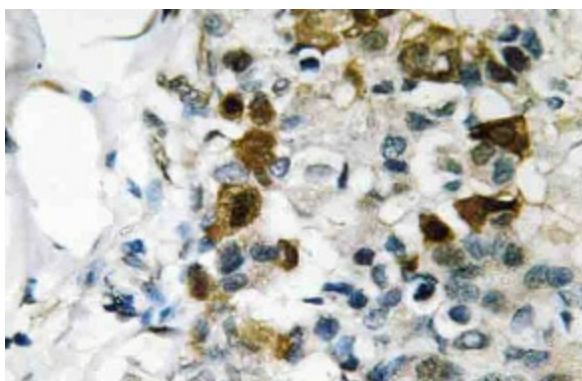
**Synonyms:** Heat shock protein beta-1, Heat shock 27 kDa protein, HSP28, 28 kDa heat shock protein, SRP27, HSP25

**Protein Pathways:** MAPK signaling pathway, VEGF signaling pathway

**Product images:**



Western blot (WB) analyzes of p-HSP27 antibody (Cat.-No.: [AP20848PU-N]) in extracts from HUVEC TNF cells.



Immunohistochemistry (IHC) analyzes of p-HSP27 antibody (Cat.-No.: [AP20848PU-N]) in paraffin-embedded human breast carcinoma tissue.