

Product datasheet for **AP20950PU-N**

HSP27 (HSPB1) pSer78/82 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on paraffin sections 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of HSP27 protein only when phosphorylated at Ser78/82.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% 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:	Entrez Gene 15507 Mouse Entrez Gene 24471 Rat Entrez Gene 3315 Human P04792



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Background:

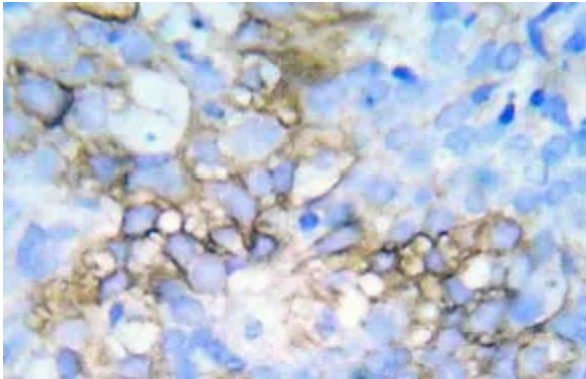
The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multiprotein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. Heat shock proteins (also known as molecular chaperones) fall into six general families: HSP 90, HSP 70, HSP 60, the low molecular weight HSPs, the immunophilins and the HSP 110 family. The low molecular weight family includes HSP 10, HSP 20, HSP 27, HSP 32 and HSP 40. HSP 27 is a constitutively expressed cytoplasmic protein that co-localizes to the nucleus upon stress induced by insult. Heat, cytokines and hormones are among the factors that stimulate the synthesis of HSP 27. In vitro, HSP 27 becomes highly phosphorylated following exposure to stress. The discovery that HSP 27 is regulated by hormones such as estrogen has led to studies establishing a relationship between HSP 27 and breast cancer.

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:

Immunohistochemistry (IHC) analyzes of p-HSP27 antibody (Cat.-No.: AP20950PU-N) in paraffin-embedded human breast carcinoma tissue.