

**Anti-HSP27 (pS78) Antibody**  
**Rabbit polyclonal antibody to HSP27 (pS78)**  
**Catalog # AP61256**

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**Specification**

**Anti-HSP27 (pS78) Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P04792</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22783

**Anti-HSP27 (pS78) Antibody - Additional Information**

**Gene ID** 3315

**Other Names**

HSP27; HSP28; Heat shock protein beta-1; HspB1; 28 kDa heat shock protein; Estrogen-regulated 24 kDa protein; Heat shock 27 kDa protein; HSP 27; Stress-responsive protein 27; SRP27

**Target/Specificity**

Recognizes endogenous levels of HSP27 (pS78) protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)  
IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-HSP27 (pS78) Antibody - Protein Information**

**Name** HSPB1

**Synonyms** HSP27, HSP28

**Function**

Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding- competent state (PubMed:<a href="http://www.uniprot.org/citations/10383393" target="\_blank">10383393</a>, PubMed:<a href="http://www.uniprot.org/citations/20178975" target="\_blank">20178975</a>). Plays a role in stress resistance and actin organization (PubMed:<a href="http://www.uniprot.org/citations/19166925" target="\_blank">19166925</a>). Through its

molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (PubMed:<a href="http://www.uniprot.org/citations/23728742" target="\_blank">23728742</a>).

#### Cellular Location

Cytoplasm. Nucleus Cytoplasm, cytoskeleton, spindle Note=Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

#### Tissue Location

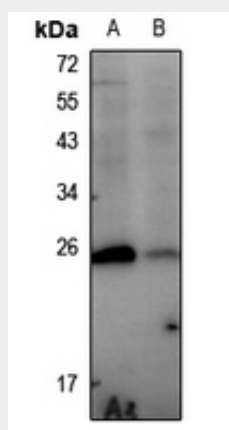
Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and in tissues composed of striated and smooth muscle.

### Anti-HSP27 (pS78) Antibody - Protocols

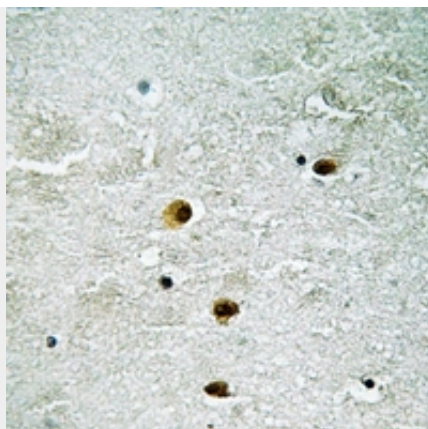
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-HSP27 (pS78) Antibody - Images



Western blot analysis of HSP27 (pS78) expression in Hela (A), rat spleen (B) whole cell lysates.



Immunohistochemical analysis of HSP27 (pS78) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-HSP27 (pS78) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HSP27 (pS78). The exact sequence is proprietary.