

HSP27 Polyclonal Antibody

Catalog # AP74021

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | P04792 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 22783 |

Additional Information

| | |
|--------------------|---|
| Gene ID | 3315 |
| Other Names | HSPB1 HSP27 HSP28 |
| Dilution | WB~~WB 1:500-2000, ELISA 1:10000-20000 |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

Protein Information

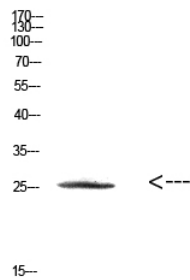
| | |
|-------------------|---|
| Name | HSPB1 |
| Synonyms | HSP27, HSP28 |
| Function | Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding- competent state (PubMed: 10383393 , PubMed: 20178975). Plays a role in stress resistance and actin organization (PubMed: 19166925). Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (PubMed: 23728742). |
| 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.

Background

Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding- competent state (PubMed:[10383393](#), PubMed:[20178975](#)). Plays a role in stress resistance and actin organization (PubMed:[19166925](#)). Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (PubMed:[23728742](#)).

Images



Western Blot analysis of NT28 cells using Antibody diluted at 500. Secondary antibody was diluted at 1:20000

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