

HSP27 Polyclonal Antibody

Catalog # AP70434

Product Information

Application WB, IHC-P
Primary Accession P04792
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 22783

Additional Information

Gene ID 3315

Other Names HSPB1; 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

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A

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.

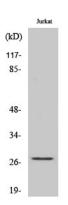
Tissue Location Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine,

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:<u>10383393</u>, PubMed:<u>20178975</u>). Plays a role in stress resistance and actin organization (PubMed:<u>19166925</u>). Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (PubMed:<u>23728742</u>).

Images



Western Blot analysis of various cells using HSP27 Polyclonal Antibody diluted at 1:1000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.