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Phospho-Hsp27 (S78) (6L19) Rabbit Monoclonal Antibody

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Catalog # AP93692

Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	P04792
Reactivity	Human
Clonality	Monoclonal
Calculated MW	22783

Additional Information

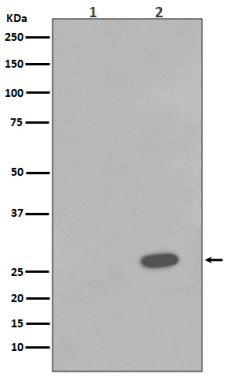
Gene ID	3315
Other Names	Heat shock protein beta-1, HspB1, 28 kDa heat shock protein, Estrogen-regulated 24 kDa protein, Heat shock 27 kDa protein, HSP 27, Heat shock protein family B member 1, Stress-responsive protein 27, SRP27, HSPB1, HSP27, HSP28
Dilution	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 ICC~~N/A IP~~N/A
Storage Conditions	-20℃

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.

Images



Western blot analysis of Phospho-Hsp27 (S78) expression in (1) A431 cell lysate; (2) A431 cell lysate treated with Anisomycin.