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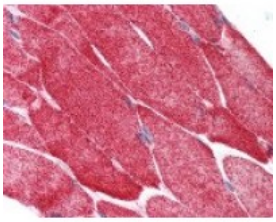
HSPB1 Antibody, Monoclonal

CATALOG NUMBER: 49-441



Immunohistochemistry staining of HSPB1 in skeletal muscle tissue using HSPB1 monoclonal Antibody.

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	ELISA, ICC, IHC, IP, WB
APPLICATIONS:	HSPB1 antibody can be used in immunohistochemistry starting at 35 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
IMMUNOGEN:	Prokaryotic the full length human hsp27 protein.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	Protein A Column
PHYSICAL STATE:	Liquid
BUFFER:	0.02 M potassium phosphate, 0.5 M sodium chloride, pH 7.2, 0.01% sodium azide.
STORAGE CONDITIONS:	Store HSPB1 antibody at 4 ˚C or -20 ˚C. As with all antibodies avoid freeze/thaw cycles.
CLONALITY:	Monoclonal
ISOTYPE:	IgG1,l
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	HSPB1, 28 kDa heat shock protein, Heat shock 27 kDa protein, Heat shock 27kD protein 1, Heat shock 27kDa protein 1, HSP27, HSP28, HSP 27, Hsp25, SRP27, Stress-responsive protein 27, CMT2F, Heat shock 27 kd protein, Heat shock protein beta-1, HMN2B, HS.76067
ACCESSION NO.:	P04792
PROTEIN GI NO.:	19855073
OFFICIAL SYMBOL:	HSPB1
GENE ID:	3315

Background

BACKGROUND:	Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at different levels in different cell types and tissues (this protein has also been referred to as the Estrogen-Regulated 24 kDa protein, hsp25 and hsp28). Like other small heat shock proteins, HSP27 is regulated at both the transcriptional and post-translational level. In response to stress, the expression level of HSP27 increases several-fold to confer cellular resistance to the adverse environmental change. Human HSP27 shares greater than 50% homology with the low molecular weight Drosophila HSP and mammalian crystalline lens protein. Because of the estrogen responsive nature of HSP27, the protein has been extensively studied in human estrogen responsive tissue such as cervix, endometrium and breast tissue. Recently, Hsp27 has been implicated as a regulator of breast tumor blood vessel growth, as an anti-inflammatory agent, and important for sensory neuron survival following axotomy.

FOR RESEARCH USE ONLY

December 13, 2016