Product Name: HSP27 (phospho Ser78) Rabbit

Polyclonal Antibody Catalog #: APRab04804



Summary

Production Name HSP27 (phospho Ser78) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human, Rat, Mouse

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name HSPB1

HSPB1; HSP27; HSP28; Heat shock protein beta-1; HspB1; 28 kDa heat shock protein;

Alternative Names Estrogen-regulated 24 kDa protein; Heat shock 27 kDa protein; HSP 27; Stress-

responsive protein 27; SRP27

Gene ID 3315.0

P04792. The antiserum was produced against synthesized peptide derived from human

HSP27 around the phosphorylation site of Ser78. AA range:45-94

Application

SwissProt ID

Dilution Ratio WB 1:500 - 1:2000. ELISA: 1:20000

Molecular Weight 27kD

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Background

The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq, Oct 2008], disease: Defects in HSPB1 are a cause of distal hereditary motor neuronopathy type 2B (HMN2B) [MIM:608634]. Distal hereditary motor neuronopathies constitute a heterogeneous group of neuromuscular disorders caused by selective impairment of motor neurons in the anterior horn of the spinal cord, without sensory deficit in the posterior horn. The overall clinical picture consists of a classical distal muscular atrophy syndrome in the legs without clinical sensory loss. The disease starts with weakness and wasting of distal muscles of the anterior tibial and peroneal compartments of the legs. Later on, weakness and atrophy may expand to the proximal muscles of the lower limbs and/or to the distal upper limbs, disease: Defects in HSPB1 are the cause of Charcot-Marie-Tooth disease type 2F (CMT2F) [MIM:606595]. CMT2F is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT2 group are characterized by signs of axonal regeneration in the absence of obvious myelin alterations, normal or slightly reduced nerve conduction velocities, and progressive distal muscle weakness and atrophy. Nerve conduction velocities are normal or slightly reduced. CMT2F onset is between 15 and 25 years with muscle weakness and atrophy usually beginning in feet and legs (peroneal distribution). Upper limb involvement occurs later. CMT2F inheritance is autosomal dominant, function: Involved in stress resistance and actin organization, induction: Expressed in response to environmental stresses such as heat shock, or estrogen stimulation in MCF-7 cells.,PTM:Phosphorylated in MCF-7 cells on exposure to protein kinase C activators and heat shock., similarity: Belongs to the small heat shock protein (HSP20) family., subcellular location: Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock, subunit:Interacts with TGFB1I1 (By similarity). Associates with alpha- and beta-tubulin, microtubules and CRYAB. Interacts with HSPB8 and HSPBAP1, tissue specificity: 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.,

Research Area

MAPK_ERK_Growth;MAPK_G_Protein;VEGF;

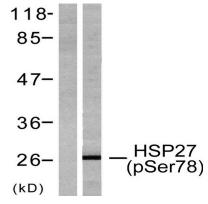
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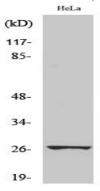
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Image Data



Western blot analysis of lysates from HeLa cells treated with Ca2+, using HSP27 (Phospho-Ser78) Antibody. The lane on the left is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-HSP27 (S78) Polyclonal Antibody

Note

For research use only.