abcam

Product datasheet

Anti-Hsp27 antibody [G3.1] ab2790

★★★★★ 6 Abreviews 45 References 6 图像

概述

产**品名称** Anti-Hsp27抗体[G3.1]

宿主 Mouse

经测试应用 适用于: Flow Cyt, ICC/IF, IHC-P, WB

种属反应性 与反应: Human

预测可用于: Chicken, Cow, Pig 4

免疫原 Full length native protein (purified) corresponding to Human Hsp27. (Partially purified human

HSP27)

阳性对照 WB: Hela whole cell lysate; ICC/IF: MCF7 cells; Flow Cyt: MCF7 cells; IHC-P: Human breast

carcinoma and human prostate carcinoma.

常规说明

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

存储溶液 pH: 7.2

Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA

纯**度** Tissue culture supernatant

 克隆
 单克隆

 克隆编号
 G3.1

 同种型
 IgG1

1

The Abpromise quarantee

Abpromise™承诺保证使用ab2790于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt		Use a concentration of 1 - 2 µg/ml. ab170190 - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 1 - 2 μg/ml.
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval using 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 minutes at 95°C followed by cooling at room temperature for 20 minutes. Incubate with primary for 30 minutes at room temperature.
WB	★★★★★ (4)	Use a concentration of 0.25 - 0.5 μg/ml.

靶标

功能

组织特异性

疾病相关

Involved in stress resistance and actin organization.

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.

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.

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.

Belongs to the small heat shock protein (HSP20) family.

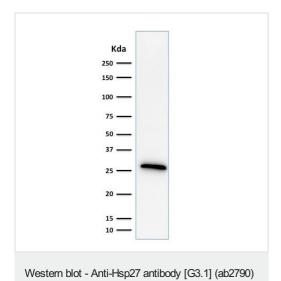
翻译后修饰

细胞定位

Phosphorylated in MCF-7 cells on exposure to protein kinase C activators and heat shock.

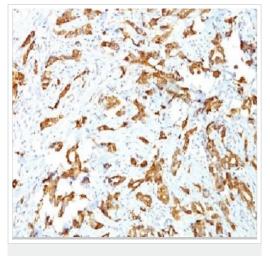
Cytoplasm. Nucleus. Cytoplasm > cytoskeleton > spindle. Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

图片



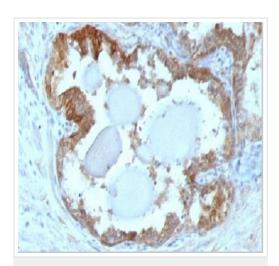
Anti-Hsp27 antibody [G3.1] (ab2790) + HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Observed band size: 27 kDa



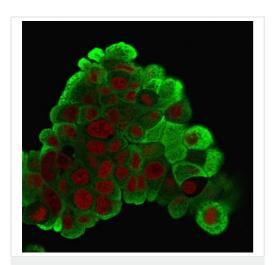
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Hsp27 antibody [G3.1] (ab2790)

Immunohistochemistry of paraffin embedded human breast carcinoma with ab2790 labeling Hsp27 at 0.5µg/ml.



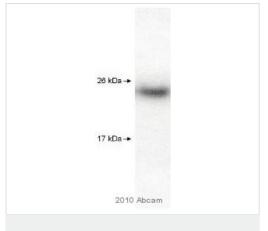
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Hsp27 antibody [G3.1] (ab2790)

Immunohistochemistry of paraffin embedded human prostate carcinoma with ab2790 labeling Hsp27 at $0.5 \mu g/ml$.



Immunocytochemistry/ Immunofluorescence - Anti-Hsp27 antibody [G3.1] (ab2790)

Immunocytochemistry/immunofluorescence analysis of paraformaldehyde fixed MCF7 (human breast adenocarcinoma cell line) cells labelling Hsp27 with ab2790 at 2 μ g/mL. Goat Anti-Mouse lgG was used as the secondary antibody (green). Nuclear DNA labelled red.



Anti-Hsp27 antibody [G3.1] (ab2790) at 1/1000 dilution + Mouse whole brain tissue lysate. at 10 µg

Secondary

An HRP-conjugated Goat polyclonal. at 1/10000 dilution

Developed using the ECL technique.

Observed band size: 24 kDa

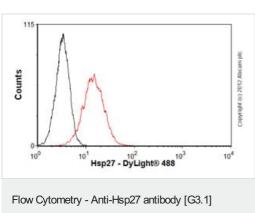
Exposure time: 5 minutes

Western blot - Anti-Hsp27 antibody [G3.1] (ab2790)

This image is courtesy of an Abreview submitted by Brian Hitt

Blocking Step: 5% Milk for 1 hour at 25°C.

Gel Running Conditions: Reduced, Denaturing Bis-tris 4-12%



(ab2790)

Overlay histogram showing HeLa cells (ab150035) stained with ab2790 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum (ab7481) / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab2790, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, $2\mu g/1x10^6$ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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