

## Product datasheet

# Anti-Hsp27 (phospho S82) antibody ab17937

3 References [画像数 1](#)

### 製品の概要

製品名	Anti-Hsp27 (phospho S82) antibody
製品の詳細	Rabbit polyclonal to Hsp27 (phospho S82)
特異性	When tested by Western blotting on TNF alpha stimulated HeLa lysates the antibody detects a single clean band of about 27kD. This band is only blocked by the phospho peptide immunogen and not by an equivalent non-phospho peptide or by a generic phospho peptide. This confirms that the antibody is specific for phospho S82 of Hsp27.
アプリケーション	<b>適用あり:</b> WB
種交差性	<b>交差種:</b> Human
免疫原	Synthetic phospho peptide (Human).
ポジティブ・コントロール	HeLa cells treated with TNF alpha.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium Azide Constituents: 50% Glycerol, PBS, 1mg/ml BSA. pH 7.3
精製度	Immunogen affinity purified
特記事項(精製)	The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated HSP27.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab17937** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

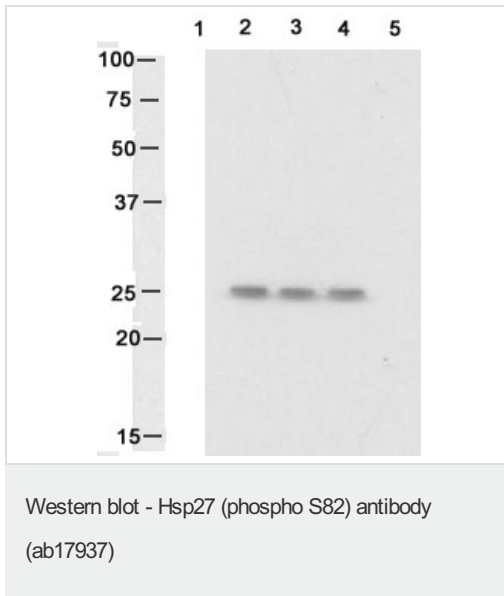
アプリケーション	Abreviews	特記事項
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WB 1/1000. Detects a band of approximately 27 kDa (predicted molecular weight: 27 kDa).

## ターゲット情報

<b>機能</b>	Involved in stress resistance and actin organization.
<b>組織特異性</b>	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.
<b>関連疾患</b>	<p>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.</p> <p>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.</p>
<b>配列類似性</b>	Belongs to the small heat shock protein (HSP20) family.
<b>翻訳後修飾</b>	Phosphorylated in MCF-7 cells on exposure to protein kinase C activators and heat shock.
<b>細胞内局在</b>	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.

## 画像



**Predicted band size : 27 kDa**

Western blot using ab17937 on HeLa cell lysate.

Lane 1: Unstimulated HeLa lysate

Lane 2: TNF- $\alpha$  Stimulated HeLa lysate

Lane 3: TNF- $\alpha$  Stimulated HeLa lysate

blocked with non-phospho peptide (equivalent to immunogen sequence)

Lane 4: TNF- $\alpha$  Stimulated HeLa lysate

blocked with generic phospho-serine peptide.

Lane 5: TNF- $\alpha$  Stimulated HeLa lysate

blocked with phosphopeptide immunogen.

10-30  $\mu$ g of cell lysate can be loaded when using similar lysates with this antibody.

Samples were run using SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 5% BSA-TBST buffer for one hour at room

temperature, then incubated with ab17937 for one hour at room temperature in 3% BSA-

TBST buffer, following prior incubation with blocking peptides. After washing, membranes

were incubated with goat F(ab')<sub>2</sub> anti-rabbit IgG HRP conjugate in 3% BSA-TBST buffer,

and bands were detected using the Pierce SuperSignal method. Only the phospho

peptide immunogen blocks the antibody, confirming its specificity for the phospho

epitope S82.

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