

# Recombinant Human HSF1 (phospho ) protein ab115508

画像数 3

### 製品の詳細

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製品名	Recombinant Human HSF1 (phospho ) protein
精製度	> 90 % SDS-PAGE. Purity =90% (~60% full-length with trace upstream kinase).
発現系	Escherichia coli
アクセッション番号	<b>Q00613</b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	70 kDa including tags
領域	1 to 529
タグ	His tag N-Terminus

### 特性

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Our **Abpromise guarantee** covers the use of **ab115508** 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	SDS-PAGE Western blot
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製品の状態	Liquid
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### 前処理および保存

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保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. Constituents: Tris buffered saline, 5% Glycerol (glycerin, glycerine)
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### 関連情報

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機能	DNA-binding protein that specifically binds heat shock promoter elements (HSE) and activates transcription. In higher eukaryotes, HSF is unable to bind to the HSE unless the cells are heat
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shocked.

#### 配列類似性

Belongs to the HSF family.

#### ドメイン

the 9aaTAD motif is a transactivation domain present in a large number of yeast and animal transcription factors.

#### 翻訳後修飾

Phosphorylated on multiple serine residues, a subset of which are involved in stress-related regulation of transcription activation. Constitutive phosphorylation represses transcriptional activity at normal temperatures. Levels increase on specific residues heat-shock and enhance HSF1 transactivation activity. Phosphorylation on Ser-307 derepresses activation on heat-stress and in combination with Ser-303 phosphorylation appears to be involved in recovery after heat-stress. Phosphorylated on Ser-230 by CAMK2, in vitro. Cadmium also enhances phosphorylation at this site. Phosphorylation on Ser-303 is a prerequisite for HSF1 sumoylation. Phosphorylation on Ser-121 inhibits transactivation and promotes HSP90 binding. Phosphorylation on Thr-142 also mediates transcriptional activity induced by heat. Phosphorylation on Ser-326 plays an important role in heat activation of HSF1 transcriptional activity.

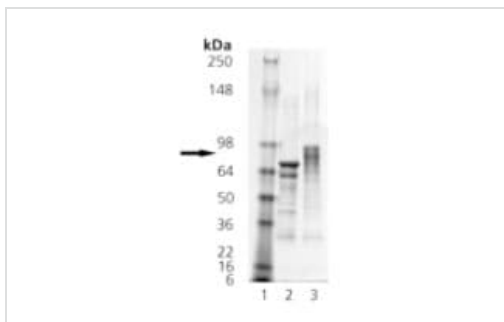
Sumoylated with SUMO1 and SUMO2 on heat-shock. Heat-inducible sumoylation occurs after 15 min of heat-shock, after which levels decrease and at 4 hours, levels return to control levels.

Sumoylation has no effect on HSE binding nor on transcriptional activity. Phosphorylation on Ser-303 is a prerequisite for sumoylation.

#### 細胞内局在

Cytoplasm. Nucleus. Cytoplasmic during normal growth. On activation, translocates to nuclear stress granules. Colocalizes with SUMO1 in nuclear stress granules.

#### 画像



SDS-PAGE analysis:

Lane 1: MWM,

Lane 2: 2µg HSF1,

Lane 3: 2µg ab115508 (HSF1 - phospho)

SDS-PAGE - Recombinant Human HSF1 (phospho)  
protein (ab115508)



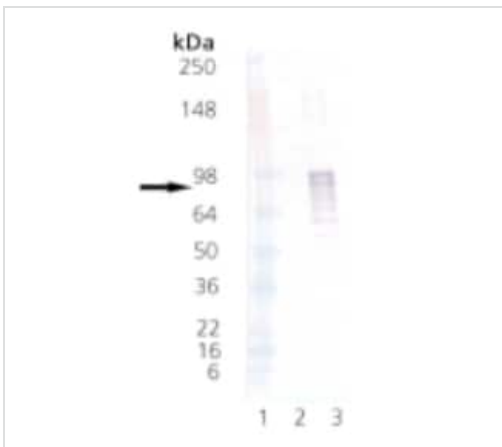
Western blot - Recombinant Human HSF1 (phospho) protein (ab115508)

Western Blot analysis:

Lane 1: MW marker

Lane 2: HSF1

Lane 3: HSF1 (phospho) probed with HSF1 pAb



Western blot - Recombinant Human HSF1 (phospho) protein (ab115508)

Western Blot analysis:

Lane 1: MW marker

Lane 2: HSF1

Lane 3: HSF1 (phospho) probed with HSF1 (pSer326)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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