**Anti-HSF1 (phospho S326) antibody ab115702**

**Overview**

- **Product name**: Anti-HSF1 (phospho S326) antibody
- **Description**: Rabbit polyclonal to HSF1 (phospho S326)
- **Host species**: Rabbit
- **Tested applications**: Suitable for: WB
- **Species reactivity**: Reacts with: Human
- **Immunogen**: Synthetic peptide derived from Human HSF1 phosphorylated at Ser 326.
- **Positive control**: HeLa whole cell lysate (ab150035); HeLa whole cell lysate (ab150035) Heat-Shocked;

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Store at -20°C.
- **Storage buffer**: Preservative: 0.09% Sodium azide
  Constituents: 49% PBS, 50% Glycerol
- **Purity**: Protein A purified
- **Clonality**: Polyclonal
- **Isotype**: IgG

**Applications**

Our **Abpromise guarantee** covers the use of **ab115702** in the following tested applications.

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

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<th>Application</th>
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<td>WB</td>
<td>1/1000. Detects a band of approximately 85-95 kDa (predicted molecular weight: 57 kDa). (ECL).</td>
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**Function**

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 shocked.

**Sequence similarities**
Belongs to the HSF family.

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

**Post-translational modifications**
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.

**Cellular localization**

**Images**

- **All lanes**: Anti-HSF1 (phospho S326) antibody (ab115702) at 1/1000 dilution
  - **Lane 1**: MW marker
  - **Lane 2**: HeLa cell lysate
  - **Lane 3**: HeLa cell lysate Heat-Shocked (No recovery time)

  **Predicted band size**: 57 kDa

ab115702 detects a band of 85-95kDa by Western blot depending on hyperphosphorylation of the native protein.
All lanes: Anti-HSF1 (phospho S326) antibody (ab115702) at 1/1000 dilution

Lane 1: MW markers
Lane 2: Recombinant HSF1
Lane 3: Recombinant HSF1 (phospho)

Predicted band size: 57 kDa

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

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