

## Allgemeine Informationen

**Katalog-Nr.:**  
22883-1-AP

**Größe:**  
150ul , Konzentration: 600 µg/ml von  
Nanodrop und 380 µg/ml durch die  
Bradford-Methode mit BSA als  
Standard;

**Wirt:**  
Kaninchen

**Isotyp:**  
IgG

**Immunogen Katalognummer:**  
AG18935

**GenBank-Zugangsnummer:**  
BC153061

**GeneID (NCBI):**  
3299

**Vollständiger Name:**  
heat shock transcription factor 4

**Berechnete Masse:**  
492 aa, 53 kDa

**Beobachtete Masse:**  
62-66 kDa

**Reinigungsmethode:**

Antigen-affinitätsgereinigt

**Empfohlene Verdünnungen:**  
WB 1:1000-1:4000

## Anwendungen

**Geprüfte Anwendungen:**

WB, ELISA

**Getestete Reaktivität:**

Human, Maus, Ratte

**Positivkontrollen:**

**WB :** HeLa-Zellen, humanes Hirngewebe,  
Mausherzgewebe, Maushirngewebe,  
Mauslungengewebe, Maus-Skelettmuskelgewebe,  
Rattenhirngewebe

## Hintergrundinformationen

Prokaryotic and eukaryotic cells respond to thermal and chemical stress by inducing a group of genes collectively designated heat shock genes. In eukaryotes, this gene expression is regulated primarily at the transcription level. Heat shock transcription factors (HSF, also designated HSTF) 1 and 2 are involved in this regulation. HSF1 and HSF2 are upregulated by estrogen, at both the mRNA and protein level. HSF1 is normally found as a monomer, whose transcriptional activity is repressed by constitutive phosphorylation. Upon activation, HSF1 forms trimers, gains DNA binding activity and is translocated to the nucleus. HSF2 activity is associated with differentiation and development, and, like HSF1, binds DNA as a trimer. HSF4 exists as two splice variants and is expressed in heart, brain and skeletal muscle as a homotrimer. HSF4a does not contain a DNA-binding domain and inhibits the formation of HSF1 nuclear bodies, thus repressing HSF1 mediated transcription. HSF4b does contain a DNA-binding domain and colocalizes with HSF1 nuclear bodies after heat shock. This antibody is specific to human HSF4.

## Lagerung

**Lagerungsbedingungen:**

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

**Aliquotieren ist nicht notwendig bei -20°C Lagerung**

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

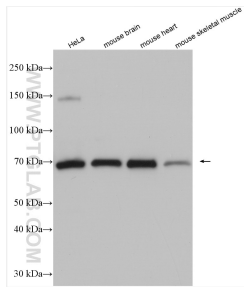
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## Ausgewählte Validierungsdaten



Various lysates were subjected to SDS PAGE followed by western blot with 22883-1-AP (HSF4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.