

For Research Use Only

# HSF1 Polyclonal antibody

Catalog Number: 16107-1-AP **12 Publications**



## Basic Information

<b>Catalog Number:</b> 16107-1-AP	<b>GenBank Accession Number:</b> BC014638	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 300 µg/ml by Nanodrop and 187 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3297	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> heat shock transcription factor 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 529 aa, 57 kDa	
<b>Immunogen Catalog Number:</b> AG9023	<b>Observed MW:</b> 68-80 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : K-562 cells, mouse spleen tissue, mouse testis tissue, HepG2 cells, MCF-7 cells, mouse kidney tissue

**IHC** : human cervical cancer tissue, human lung cancer tissue

## Background Information

HSF1 belongs to heat-shock transcription factors that activate heat-shock response genes under conditions of heat or other stresses. Also, HSF1 has been linked with oogenesis, spermatogenesis, and placental development. It can activate AKT and inactivate JNK and CASP3 to protect cardiomyocytes from death. And it has a role in the regulation of life span and establishes a role for SIRT1 in protein homeostasis and heat-shock response. The calculated molecular weight of HSF1 is 57 kDa, but HSF1 migrates at approximately 80 kDa which likely represents different phosphorylation states (PMID: 18434628).

## Notable Publications

Author	Pubmed ID	Journal	Application
Faisal Aziz	26427350	Toxicol In Vitro	WB, IHC
Quanquan Shen	34846265	Pharm Biol	WB
Xiaolong Wang	26981638	Int J Hyperthermia	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

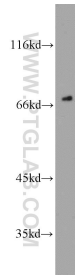
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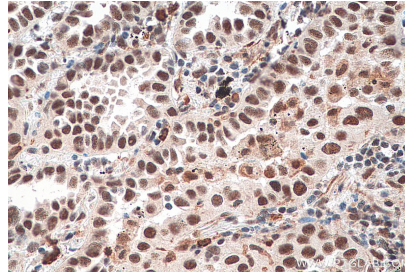
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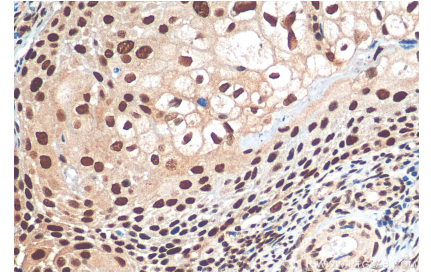
## Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 16107-1-AP (HSF1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16107-1-AP (HSF1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16107-1-AP (HSF1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).