

For Research Use Only

HSF1 Polyclonal antibody

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



Basic Information

Catalog Number: 16107-1-AP	GenBank Accession Number: BC014638	Purification Method: Antigen affinity purification
Size: 300 µg/ml	GeneID (NCBI): 3297	Recommended Dilutions: WB 1:500-1:1000 IHC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q00613	
Isotype: IgG	Full Name: heat shock transcription factor 1	
Immunogen Catalog Number: AG9023	Calculated MW: 529 aa, 57 kDa	
	Observed MW: 68-80 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB, IF, IHC	WB : K-562 cells, mouse spleen tissue, mouse testis tissue, HepG2 cells, MCF-7 cells, mouse kidney tissue
Species Specificity: human, mouse	IHC : human cervical cancer tissue, human lung cancer tissue
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	

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

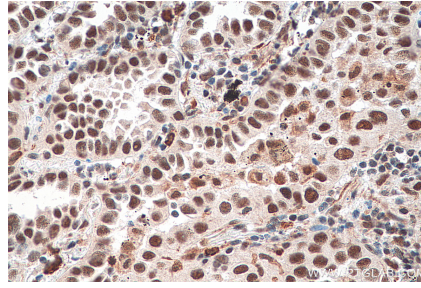
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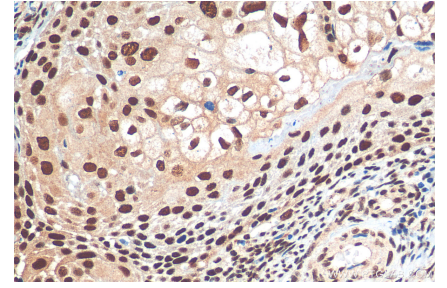
Selected Validation Data



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).