

For Research Use Only

HSF1 Polyclonal antibody

Catalog Number: 16107-1-AP **6 Publications**



Basic Information

Catalog Number: 16107-1-AP	GenBank Accession Number: BC014638	Purification Method: Antigen affinity purification
Size: 150UL, Concentration: 300 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3297	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	Full Name: heat shock transcription factor 1	
Isotype: IgG	Calculated MW: 529 aa, 57 kDa	
Immunogen Catalog Number: AG9023	Observed MW: 68-80 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : K-562 cells, HepG2 cells, MCF-7 cells, mouse kidney tissue, mouse spleen tissue, mouse testis tissue
Cited Applications: IF, IHC, WB	IHC : human lung cancer tissue, human cervical cancer tissue
Species Specificity: human, mouse, rat	
Cited Species: human, rat	
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 factor that activate heat-shock response genes under conditions of heat or other stresses. Also, HSF1 has 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 that likely represent different phosphorylation states (PMID: 18434628).

Notable Publications

Author	Pubmed ID	Journal	Application
Faisal Aziz	26427350	Toxicol In Vitro	WB, IHC
Xiaolong Wang	26981638	Int J Hyperthermia	WB
Mahlon Collins	32586379	Acta Neuropathol Commun	IF

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

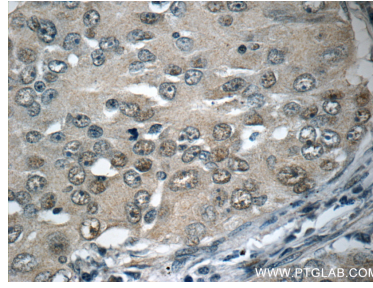
For technical support and original validation data for this product please contact:
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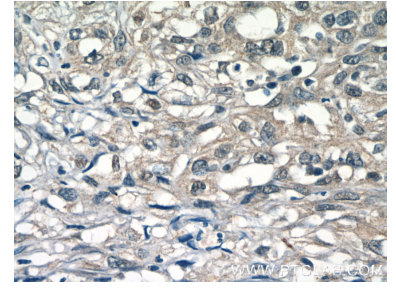
Selected Validation Data



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 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16107-1-AP (HSF1 Antibody) at dilution of 1:50 (under 40x lens).