

For Research Use Only

HSF1 Recombinant monoclonal antibody

Catalog Number: 88318-1-RR



Basic Information

Catalog Number: 88318-1-RR	GenBank Accession Number: BC014638	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 3297	CloneNo.: 260631H4
Source: Rabbit	UNIPROT ID: Q00613	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:250-1:1000
Isotype: IgG	Full Name: heat shock transcription factor 1	
Immunogen Catalog Number: AG0739	Calculated MW: 529 aa, 57 kDa	
	Observed MW: 68-80 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

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 : A431 cells, HEK-293 cells, HeLa cells, K-562 cells, HepG2 cells

IHC : Human lung cancer Adenocarcinoma ,

IF/ICC : HeLa cells,

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).

Storage

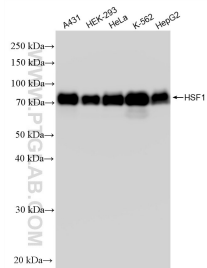
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

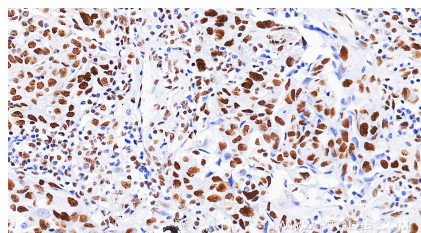
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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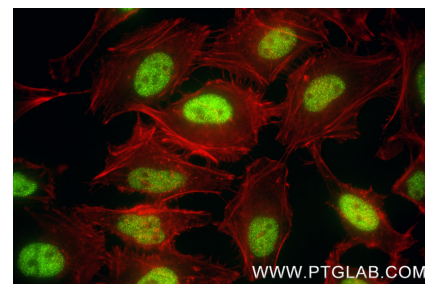
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 88318-1-RR (HSF1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded Human lung cancer (Adenocarcinoma) slide using 88318-1-RR (HSF1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HSF1 antibody (88318-1-RR, Clone: 260631H4) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).