

For Research Use Only

HSF1 Monoclonal antibody

Catalog Number: 67189-1-Ig

Featured Product

2 Publications



Basic Information

Catalog Number:

67189-1-Ig

GenBank Accession Number:

BC014638

Purification Method:

Protein G purification

Size:

150ul, Concentration: 2000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

GeneID (NCBI):

3297

CloneNo.:

1F10A5

UNIPROT ID:

Q00613

Recommended Dilutions:

WB: 1:20000-1:100000

IHC: 1:1000-1:4000

Source:

Mouse

Full Name:

heat shock transcription factor 1

Isotype:

IgG1

Calculated MW:

529 aa, 57 kDa

Immunogen Catalog Number:

AG29061

Observed MW:

68-80 kDa

Applications

Tested Applications:

WB, IHC, ELISA

Positive Controls:

WB: LNCaP cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

Cited Applications:

IHC, IF

IHC: human breast cancer tissue, human ovary tumor tissue

Species Specificity:

Human, mouse, rat

Cited Species:

human

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
Shuai Yang	38804617	Clin Transl Med	
Qiuman Lin	33122521	Pancreas	IHC,IF

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

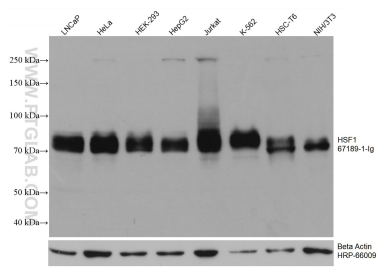
For technical support and original validation data for this product please contact:

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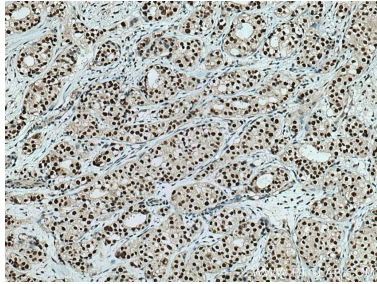
E: proteintech@ptglab.com
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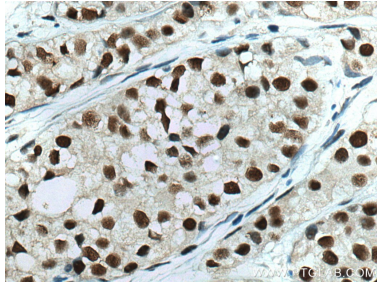
Selected Validation Data



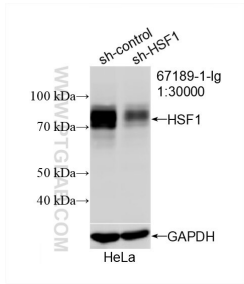
Various lysates were subjected to SDS PAGE followed by western blot with 67189-1-Ig (HSF1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67189-1-Ig (HSF1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67189-1-Ig (HSF1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of HSF1 antibody (67189-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSF1 transfected HeLa cells.