

For Research Use Only

HSF1 Monoclonal antibody

Catalog Number: 67189-1-Ig

Featured Product

1 Publications



Basic Information

| | | |
|---|--|---|
| Catalog Number: 67189-1-Ig | GenBank Accession Number: BC014638 | Purification Method: Protein G purification |
| Size: 150ul, Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 3297 | CloneNo.: 1F10A5 |
| Source: Mouse | Full Name: heat shock transcription factor 1 | Recommended Dilutions: WB 1:20000-1:100000 IHC 1:1000-1:4000 |
| Isotype: IgG1 | Calculated MW: 529 aa, 57 kDa | |
| Immunogen Catalog Number: AG29061 | Observed MW: 68-80 kDa | |

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC

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

Positive Controls:

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

IHC: human breast cancer tissue, human ovary tumor 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 |
|------------|-----------|----------|-------------|
| 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

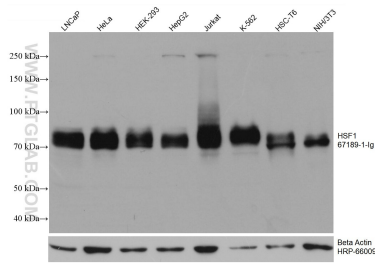
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

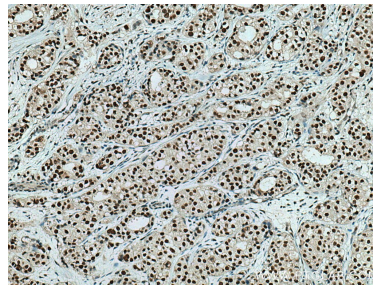
E: proteintech@ptglab.com
W: ptglab.com

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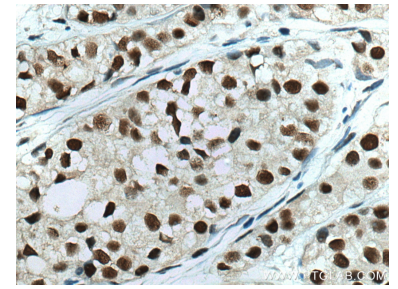
Selected Validation Data



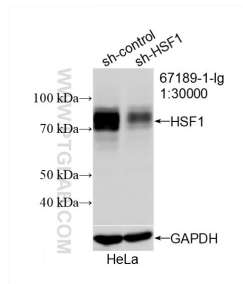
Various lysates were subjected to SDS PAGE followed by western blot with 67189-1-Ig (HSF1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



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.