HSF1
Polyclonal ANTIBODY
Catalog Number: 51034-1-AP  2 Publications

Basic Information
Catalog Number: 51034-1-AP
Size: 78 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG0739
GenBank Accession Number:
BCH4635
GeneID (NCBI): 3297
Full Name: heat shock transcription factor 1
Calculated MW: 52kDa, 57 kDa
Observed MW: 83 kDa
Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 μg for IP and 1:200-1:2000 for WB
IHC 1:500-1:1000
IF 1:20-1:200

Applications
Tested Applications: IF, IHC, IP, WB, ELISA
Cited Applications: WB
Species Specificity: human, mouse
Cited Species: human, 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 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 establishs 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
<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Christoph Siessler</td>
<td>30566938</td>
<td>PLoS One</td>
<td>WB</td>
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Storage
Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% 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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W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 51034-1-AP (HSF1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 51034-1-AP (HSF1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).


Immunofluorescent analysis of A431 cells using 51034-1-AP (HSF1 antibody) at dilution of 1:30 and Rhodamine-Goat anti-Rabbit IgG.