

Product Name: HSF1 (14S18) Rabbit Monoclonal Antibody
Catalog #: AMRe12221

Summary

Production Name	HSF1 (14S18) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	HSF1
Alternative Names	Heat shock factor 1; hsf1; HSTF1;
Gene ID	3297.0
SwissProt ID	Q00613.A synthetic peptide of human HSF1

Application

Dilution Ratio	WB: 1:2000
Molecular Weight	57kDa

Background

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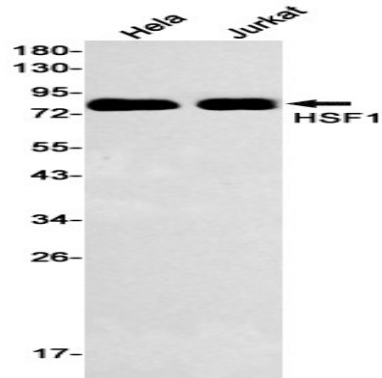
[10359787](http://www.uniprot.org/citations/10359787) PubMed: [11583998](http://www.uniprot.org/citations/11583998) PubMed: [12659875](http://www.uniprot.org/citations/12659875) PubMed: [16278218](http://www.uniprot.org/citations/16278218) PubMed: [25963659](http://www.uniprot.org/citations/25963659) PubMed: [26754925](http://www.uniprot.org/citations/26754925) PubMed: [11583998](http://www.uniprot.org/citations/11583998) PubMed: [16278218](http://www.uniprot.org/citations/16278218) PubMed: [1986252](http://www.uniprot.org/citations/1986252) PubMed: [26727489](http://www.uniprot.org/citations/26727489) PubMed: [25963659](http://www.uniprot.org/citations/25963659) PubMed: [9341107](http://www.uniprot.org/citations/9341107) PubMed: [14707147](http://www.uniprot.org/citations/14707147) PubMed: [17897941](http://www.uniprot.org/citations/17897941) PubMed: [18794143](http://www.uniprot.org/citations/18794143) PubMed: [26359349](http://www.uniprot.org/citations/26359349) PubMed: [26754925](http://www.uniprot.org/citations/26754925)

Activation is reversible, and during the attenuation and recovery phase period of the HSR, returns to its unactivated form (PubMed: [11583998](http://www.uniprot.org/citations/11583998) PubMed: [16278218](http://www.uniprot.org/citations/16278218)). Binds to inverted 5'-NGAAN-3' pentamer DNA sequences (PubMed: [1986252](http://www.uniprot.org/citations/1986252) PubMed: [26727489](http://www.uniprot.org/citations/26727489)). Binds to chromatin at heat shock gene promoters (PubMed: [25963659](http://www.uniprot.org/citations/25963659)). Plays also several other functions independently of its transcriptional activity. Involved in the repression of Ras-induced transcriptional activation of the c-fos gene in heat-stressed cells (PubMed: [9341107](http://www.uniprot.org/citations/9341107)). Positively regulates pre-mRNA 3'-end processing and polyadenylation of HSP70 mRNA upon heat-stressed cells in a symplekin (SYMPK)-dependent manner (PubMed: [14707147](http://www.uniprot.org/citations/14707147)). Plays a role in nuclear export of stress-induced HSP70 mRNA (PubMed: [17897941](http://www.uniprot.org/citations/17897941)). Plays a role in the regulation of mitotic progression (PubMed: [18794143](http://www.uniprot.org/citations/18794143)). Plays also a role as a negative regulator of non-homologous end joining (NHEJ) repair activity in a DNA damage-dependent manner (PubMed: [26359349](http://www.uniprot.org/citations/26359349)). Involved in stress-induced cancer cell proliferation in a IER5-dependent manner (PubMed: [26754925](http://www.uniprot.org/citations/26754925)).

Research Area

Image Data

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Western blot detection of HSF1 in HeLa, Jurkat cell lysates using HSF1 antibody (1:500 diluted).

Note

For research use only.