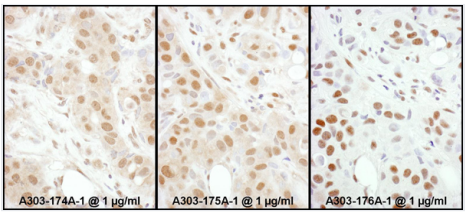
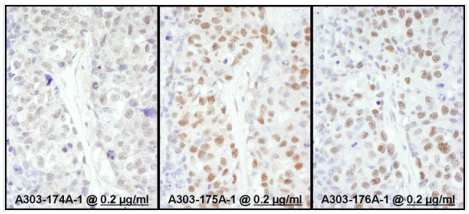
HSF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

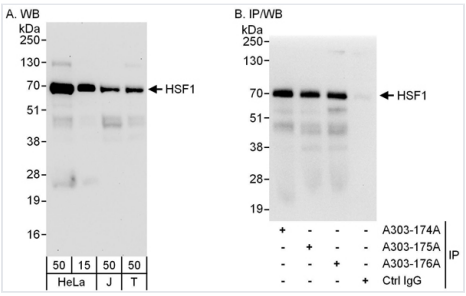
Product Name	HSF1, Polyclonal Antibody
Full Product Name	Rabbit anti-HSF1 Antibody, Affinity Purified
Product Gene Name	anti-HSF1 antibody
Product Synonym Names	HSTF1; heat shock factor protein 1; Heat shock transcription factor 1; HSF 1; HSTF 1; Heat shock factor protein 1; heat shock transcription factor 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	200ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	57,260 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (145515270..145538385). Location: 8q24.3
OMIM	140580
3D Structure	ModBase 3D Structure for Q00613
Predicted Reactivity	Bovine
Immunogen	Between 479 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-HSF1 antibody	Primary Antibodies
Applications Tested/Suitable for anti-HSF1 antibody	Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-HSF1 antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate IHC: 1:200-1:1000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-HSF1 antibody	Heat shock factor protein 1 (HSF1) is a DNA-binding protein that specifically binds heat shock promoter elements (HSE) and activates transcription. In higher eukaryotes, HSF is unable to bind to the HSE unless the cells are heat shocked [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/Q00613].
Other Notes	Small volumes of anti-HSF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HSF1 purchase	MBS3903469 is an antibody targeting HSF1. Also known as Rabbit anti-HSF1 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-HSF1 antibody
Detection of human HSF1 by immunohistochemistry. Samples: FFPE sections of human breast carcinoma. Antibody: Affinity purified rabbit anti-HSF1 Cat. No. MBS3903467 Lot1 used at a dilution of 1:1,000 (1ug/ml) (left), Cat. No. MBS3903468 Lot1 used at a dilution of 1:1,000 (1ug/ml) (center) and Cat. No. MBS3903469 Lot1 used at a dilution of 1:200 (1ug/ml) (right). Detection: DAB



Immunohistochemistry (IHC) of anti-HSF1 antibody
Detection of human HSF1 by immunohistochemistry. Samples: FFPE sections of human ovarian carcinoma. Antibody: Affinity purified rabbit anti-HSF1 Cat. No. MBS3903467 Lot1 used at a dilution of 1:5,000 (0.2ug/ml) (left), Cat. No. MBS3903468 Lot1 used at a dilution of 1:5,000 (0.2ug/ml) (center) and Cat. No. MBS3903469 Lot1 used at a dilution of 1:1,000 (0.2ug/ml) (right). Detection: DAB



Western Blot (WB) of anti-HSF1 antibody
Detection of human HSF1 by western blot and immunoprecipitation. Samples: Whole cell lysate from HeLa (15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), Jurkat (J; 50 ug) and HEK293T (T; 50 ug) cells. Antibodies: Affinity purified rabbit anti-HSF1 antibody MBS3903469 used for WB at 0.04 ug/ml (A) and 1 ug/ml (B) and used for IP at 6 ug/mg lysate. HSF1 was also immunoprecipitated by rabbit anti-HSF1 antibodies MBS3903467 and MBS3903468, which recognize upstream epitopes. Detection: Chemiluminescence with exposure times of 30 seconds (A) and 3 seconds (B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSF1. It may not necessarily be applicable to this product.

NCBI GI #	5031767
NCBI GeneID	3297
NCBI Accession #	NP_005517.1
UniProt Primary Accession #	Q00613
UniProt Secondary Accession #	Q53XT4; A8K4L0; A8MW26
UniProt Related Accession #	Q00613
GenBank Nucleotide #	NM_005526.2
NCBI Official Full Name	heat shock factor protein 1
NCBI Official Synonym Full Names	heat shock transcription factor 1
NCBI Official Symbol	HSF1
NCBI Official Synonym Symbols	HSTF1
UniProt Protein Name	Heat shock factor protein 1
UniProt Synonym Protein Names	Heat shock transcription factor 1
Protein Family	Heat shock factor protein
UniProt Gene Name	HSF1
UniProt Synonym Gene Names	HSTF1; HSF 1; HSTF 1

UniProt Entry Name	HSF1_HUMAN
NCBI Protein Information	heat shock factor protein 1; HSF 1; HSTF 1
NCBI Summary for HSF1	The product of this gene is a heat-shock transcription factor. Transcription of heat-shock genes is rapidly induced after temperature stress. Hsp90, by itself and/or associated with multichaperone complexes, is a major repressor of this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for HSF1	HSF1: a transcription factor that specifically binds heat shock promoter elements (HSE) and activates transcription. Induced in response to heat, heavy metals, and oxidative stress. In higher eukaryotes, HSF is unable to bind to HSEs unless the cells are stressed. Becomes phosphorylated in response to stress, forming homotrimers that bind DNA and activate transcription. Phosphorylation by PLK1 enhances nuclear translocation, and phosphorylation by CaMKII enhances transactivation. Phosphorylation by GSK3 and ERK1 induces binding by 14-3-3 and sequestration in the cytoplasm. In addition, during attenuation from the heat shock response, HSF1 is repressed by direct binding of Hsp70, HSP40, and HSF binding protein 1 (HSBP1). Four alternatively spliced isoforms have been described. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: nucleoplasm; protein complex; pronucleus; cytoplasm; cytosol Molecular Function: protein binding; chromatin binding; transcription factor activity Biological Process: negative regulation of cell proliferation; embryonic placenta development; embryonic process involved in female pregnancy; mRNA transcription; female meiosis; defense response; spermatogenesis; response to lipopolysaccharide; positive regulation of transcription from RNA polymerase II promoter; negative regulation of tumor necrosis factor production; positive regulation of multicellular organism growth; negative regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation
Research Articles on HSF1	**1.** UVA irradiation could stimulate the activation of HSF1 and increase HSP70 protein expression in HaCaT cells, which inhibited activation of JNK, thus preventing apoptosis.
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