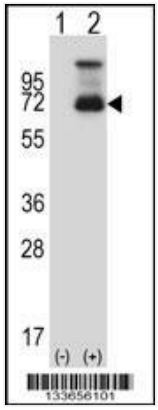
HSF1 Antibody – Rabbit Polyclonal

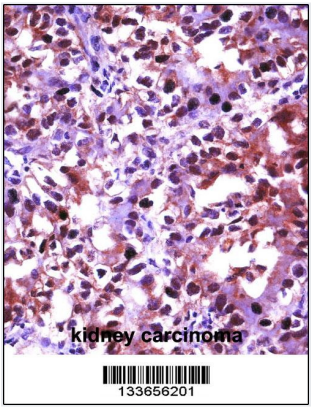
PRODUCT OVERVIEW

Product Name	HSF1, Polyclonal Antibody
Full Product Name	HSF1, NT (HSF1, HSTF1, Heat shock factor protein 1, Heat shock transcription factor 1) (FITC)
Product Gene Name	anti-HSF1 antibody
Product Synonym Names	HSF1; HSTF1; Heat shock factor protein 1; Heat shock transcription factor 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
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
Immunogen	HSF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-100 amino acids from the N-terminal region of human HSF1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-HSF1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-HSF1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-HSF1 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-HSF1 antibody	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.
Product References and Citations for anti-HSF1 antibody	Hayashida, N., et al. EMBO J. 29(20):3459-3469(2010). Sangle, G.V., et al. Endocrinology 151(9):4455-4466(2010). Shunmei, E., et al. Mol. Cells 29(5):527-531(2010). Kim, S.A., et al. Int. J. Oncol. 36(4):867-872(2010). Wang, C., et al. J Transl Med 8, 44 (2010).

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	MBS6308543 is an antibody targeting HSF1. Also known as HSF1, NT (HSF1, HSTF1, Heat shock factor protein 1, Heat shock transcription factor 1) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-HSF1 antibody
Western blot analysis of HSF1 (arrow) using rabbit polyclonal HSF1 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HSF1 gene.



Immunohistochemistry (IHC) of anti-HSF1 antibody
HSF1 Antibody (N-term) (AP14189a)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of HSF1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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

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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