

Rabbit anti-Human HSF1 Monoclonal Antibody | anti-HSF1 antibody

Recombinant Anti-HSF1 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255550	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

HSF1; Monoclonal Antibody; Recombinant Anti-HSF1 Antibody; Rabbit Monoclonal; HSF1 Antibody; Rabbit MAb; heat shock transcription factor 1; Anti-HSTF1 Antibody; anti-HSF1 antibody

PRODUCT SPECIFICATIONS

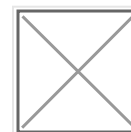
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	009
Specificity	Human HSF1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-HSF1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), ELISA
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human HSF1 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human HSF1 (rh HSF1).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of Human HSF1 in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human HSF1 monoclonal antibody (1:60) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 549-conjugated Goat Anti-rabbit IgG secondary antibody (red).



IHC (Immunohistochemistry)

Immunochemical staining of human HSF1 in human placenta with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human HSF1 in human tonsil with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-HSF1 antibody	Heat shock factor protein 1, also known as heat shock transcription factor 1, HSF1, and HSTF1, is a cytoplasm and nucleus protein that belongs to the HSF family. HSF1 is the major transcription factor of HSPs (heat shock proteins) in response to various stresses. Wild type HSF1 (heat shock transcriptional factor 1) is normally inactive. HSF1/HSTF1 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. HSF1/HSTF1 protects cells and organisms against various types of stress, either by triggering a complex response that promotes cell survival or by triggering cell death when stress-induced alterations cannot be rescued. HSF1/HSTF1 is the key protein in regulating the stress response. It can be activated under heat, oxidative, or other stress conditions. Dominant-positive and dominant-negative HSF1 are two types of HSF1 mutants. Both of them gain DNA binding activity in the absence of stress. Also, dominant-positive HSF1 acquires transcriptional activity, which dominant-negative HSF1 does not acquire. HSF1/HSTF1 was also reported to contribute to cell resistance against genotoxic stress, such as that caused by doxorubicin, an anticancer drug in common clinical use.
References	Holmberg, C.I. et al., 2000, Cell Stress Chaperones.5 (3):219-28. Huang, Y.H. et al., 2007, Sheng Wu Gong Cheng Xue Bao. 23 (6): 971-5. Salmand, P.A. et al., 2008, Biol Reprod 79 (6): 1092-101. Lee, Y.J. et al., 2008, Cancer Res 68 (18): 7550-60. Hou, Y. et al., 2009, Mol Biol Rep. 36 (8): 2271-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031767
NCBI GeneID	3297
NCBI Accession #	NP_005517.1
NCBI GenBank Nucleotide #	NM_005526.2
UniProt Accession #	Q00613; Q53XT4; A8K4L0; A8MW26
Molecular Weight	57,260 Da
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
NCBI Protein Information	heat shock factor protein 1; HSF 1; HSTF 1
UniProt Protein Name	Heat shock factor protein 1
UniProt Gene Name	HSF1
UniProt Synonym Gene Names	HSTF1; HSF 1; HSTF 1
UniProt Entry Name	HSF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.