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Datasheet for ABIN361704 anti-HSF1 antibody (AA 378-395)

5 Images



Overview

Quantity:	100 µg
Target:	HSF1
Binding Specificity:	AA 378-395
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This HSF1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Gel Shift (GS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant mouse HSF1 protein, with epitope mapping to amino acids 378-395
Clone:	10H8
lsotype:	lgG1
Specificity:	Detects ~85 kDa (unstressed cell lysates), and~95 kDa (heat shocked cell lysates).
Cross-Reactivity:	Cow, Guinea Pig, Hamster, Human, Monkey, Mouse, Rabbit, Rat
Purification:	Protein G Purified
T . D . N	
Target Details	
Target:	HSF1

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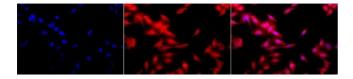
Target Details	
Alternative Name:	HSF1 (HSF1 Products)
Background:	HSF1, or heat shock factor 1, belongs to a family of Heat Shock transcription factors that activate the transcription of genes encoding products required for protein folding, processing, targeting, degradation, and function (2). The up-regulation of HSP (heat shock proteins) expression by stressors is achieved at the level of transcription through a heat shock element (HSE) and a transcription factor (HSF) (3, 4, 5). Most HSFs have highly conserved amino acid sequences. On all HSFs there is a DNA binding domain at the N-terminus. Hydrophobic repeats located adjacent to this binding domain are essential for the formation of active trimers. Towards the C-terminal region another short hydrophobic repeat exists, and is thought to be necessary for suppression of trimerization (6). There are two main heat shock factors, 1 and 2. Mouse HSF1 exists as two isoforms, however in higher eukaryotes HSF1 is found in a diffuse cytoplasmic and nuclear distribution in un-stressed cells. Once exposed to a multitude of stressors, it localizes to discrete nuclear granules within seconds. As it recovers from stress, HSF1 dissipates from these granules to a diffuse nuceloplasmic distribution. HSF2 on the other hand is similar to mouse HSF1, as it exists as two isoforms, the alpha form being more transcriptionally active than the smaller beta form (7, 8). Various experiments have suggested that HFS2 may have roles in differentiation and development (9, 10, 11).
Gene ID:	15499
NCBI Accession:	NP_032322
UniProt: Application Details	P38532
Application Notes:	 WB (1:1000) IHC (1:1000) ICC/IF (1:200) optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN361703 was sufficient for detection of HSF1 in 20 μg of heat shocked HeLa cell lysate by ECL immunoblot analysis using Goat anti-rat IgG: HRP as the secondary antibody
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Handling

Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C

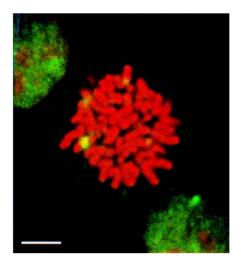
Images



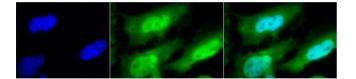
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rat Anti-HSF1 Monoclonal Antibody, Clone 10H8 (ABIN361703 and ABIN361704). Tissue: Heat Shocked cervical cancer cells (HeLa). Species: Human. Fixation: 2 % Formaldehyde for 20 min at RT. Primary Antibody: Rat Anti-HSF1 Monoclonal Antibody (ABIN361703 and ABIN361704) at 1:100 for 12 hours at 4 °C. Secondary Antibody: APC Goat Anti-Rat (red) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Diffuse nuclear and cytoplasmic staining. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-HSF1 Antibody. (C) Composite. Heat Shocked at 42 °C for 1h.





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Immunocytochemistry

Image 3. Immunocytochemistry/Immunofluorescence analysis using Rat Anti-HSF1 Monoclonal Antibody, Clone 10H8 (ABIN361703 and ABIN361704). Tissue: Heat Shocked cervical cancer cells (HeLa). Species: Human. Fixation: 2 % Formaldehyde for 20 min at RT. Primary Antibody: Rat Anti-HSF1 Monoclonal Antibody (ABIN361703 and ABIN361704) at 1:100 for 12 hours at 4 °C. Secondary Antibody: FITC Goat Anti-Rat (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Diffuse nuclear and cytoplasmic staining. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-HSF1 Antibody. (C) Composite. Heat Shocked at 42 °C for 1h.

Please check the product details page for more images. Overall 5 images are available for ABIN361704.