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anti-HSF1 antibody (AA 378-395) (PE)





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

Product Details

Target Details

HSF1

Target:

Immunogen:	Purified recombinant mouse HSF1 protein, with epitope mapping to amino acids 378-395
Clone:	10H8
Isotype:	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

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Page 1/4 | Product datasheet for ABIN2484632 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

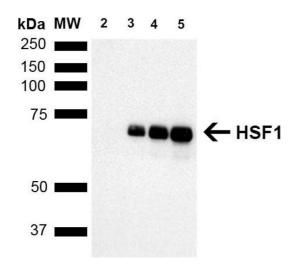
Target Details

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:	P38532
Application Details	
Application Notes:	• WB (1:1000)
	• IHC (1:1000)
	ICC/IF (1:200) antimal dilutions for account should be determined by the user.
	optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN2484632 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
Concentration:	1 mg/mL

Handling

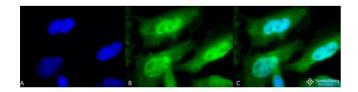
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images



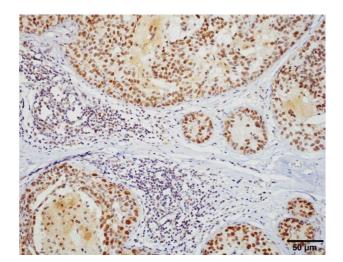
Western Blotting

Image 1. Western Blot analysis of Human Breast adenocarcinoma cell line (MCF7) showing detection of ~65 kDa HSF1 protein using Rat Anti-HSF1 Monoclonal Antibody, Clone 10H8 (ABIN2484632). Lane 1: MW ladder. Lane 2: HSF1 null lysate prepared from mouse embryonic fibroblasts. Lane 3: MCF7 lysate (5 μg). Lane 4: MCF7 lysate (10 μg). Lane 5: MCF7 lysate (20 μg). Block: 1.5 % BSA for 30 minutes at RT. Primary Antibody: Rat Anti-HSF1 Monoclonal Antibody (ABIN2484632) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rat IgG: HRP for 1 hour at RT. Predicted/Observed Size: ~65 kDa. Courtesy of: Dr. Sandro Santagata, Harvard Medical School.



Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rat Anti-HSF1 Monoclonal Antibody, Clone 10H8. Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rat Anti-HSF1 Monoclonal Antibody 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.

Immunohistochemistry

Image 3. Immunohistochemistry analysis using Rat Anti-HSF1 Monoclonal Antibody, Clone 10H8. Tissue: Breast carcinoma. Species: Human. Fixation: 10% Formalin Solution for 20 hours at RT. Primary Antibody: Rat Anti-HSF1 Monoclonal Antibody at 1:1000 for 40 min. Secondary Antibody: Dako labeled Polymer HRP Anti-rat IgG, DAB Chromogen (brown) (Dako Envision+ System) for 30 min at RT. Counterstain: Mayer's Hematoxylin (purple/blue) nuclear stain for 1 minute at RT. Localization: Nuclear. Magnification: 100X. Courtesy of: Dr. Sandro Santagata, Harvard Medical School.

Please check the product details page for more images. Overall 6 images are available for ABIN2484632.