MSF1 Antibody Image: Display and the product of th

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Applications: W, IP, IHC-P, IF-IC, FC-FP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit	UniProt ID: #Q00613	Entrez-Gene Id: 3297	
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
		Application				Dilution	
		Western Blotting				1:1000	
		Immunoprecipitatior				1:50	
		Immunohistochemis				1:250	
		Immunofluorescence		histry)		1:500	
		Flow Cytometry (Fixed Chromatin IP	u/Permeabilized)			1:50 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		This antibody detects endogenous levels of total HSF1 protein. The antibody does not cross-react with other HSF proteins.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids at the carboxy-terminus of mouse HSF1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		the expression of hig refold denatured pro- transcription is regula heat shock response conserved among org pentanucleotide mot Vertebrate cells conta characterized in aviar metals, and oxidative development. HSF3 a HSF1 exists as a mon (1,2). In response to s activates heat shock of Ser419 by PLK1, whic which enhances trans serines at 303 and 30 sequestration of HSF	hly conserved heat teins and promote t ated by a family of h elements (HSEs) loc ganisms and contai if 5'-nGAAn-3'. HSFs in four HSF protein n species. HSF1 indu agents, while HSF2 nd HSF4 show over omer that localizes itress, HSF1 become gene transcription (h enhances nuclear sactivation (3,4). Altr 7 by GSK3 and ERK 1 in the cytoplasm (peratures and other envi shock proteins (HSPs) th the degradation of dama neat shock factors (HSFs) ated upstream of all heat n multiple adjacent and i are less conserved and s s: HSF1, 2 and 4 are ubic ices heat shock gene tra is involved in spermator apping functions with H to both the cytoplasm ar s phosphorylated, form: 1,2). HSF1 activity is posi translocation, and phos ernatively, HSF1 activity i I, respectively, which lea 5,6). In addition, during a iding of Hsp70, HSP40/H	at serve as molecul ged proteins. Heat , transcriptional act t shock genes (1). H nverse iterations of share only 40% seq juitous, while HSF3 nscription in respor genesis and erythro SF1 and HSF2. The i ad nucleus, but doe s homotrimers, bin- tively regulated by phorylation of Ser2 s repressed by pho ds to binding of 14- attenuation from th	ar chaperones to shock gene tivators that bind to ISEs are highly f the uence identity. has only been nse to heat, heavy bid cell inactive form of s not bind DNA ds DNA and phosphorylation of 30 by CaMKII, sphorylation of -3-3 protein and the heat shock	
Background Re	ferences	1. Morimoto, R.I. (199 2. Mercier, P.A. et al. (3. Kim, S.A. et al. (200 4. Holmberg, C.I. et a 5. Chu, B. et al. (1996) 6. Wang, X. et al. (200 7. Satyal, S.H. et al. (1	1999) <i>J Cell Sci</i> 112 (5) <i>J Biol Chem</i> 280, I. (2001) <i>EMBO J</i> 20,) <i>J Biol Chem</i> 271, 3(3) <i>Mol Cell Biol</i> 23, 9	Pt 16), 2765-74. 12653-7. 3800-10.)847-57. 6013-26.			

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP				
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey				
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