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HSF1 (D3L8I) Rabbit mAb (PE Conjugate)

Applications: Reacting FC-FP H M R M Pg	lk B Dg Endogenous Rabbit IgG	UniProt ID:Entrez-Gene Id:#Q006133297
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and antibody. Protect from light. Do not freeze.	2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	HSF1 (D3L8I) Rabbit mAb (PE Conjugate) recognizes endo antibody is not predicted to cross-react with HSF2.	genous levels of total HSF1 protein. This
Source / Purification	Monoclonal antibody is produced by immunizing animals with residues near the carboxy terminus of human HSF1 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to ph flow cytometry analysis in human cells. This antibody is exp reactivity as the unconjugated HSF1 (D3L8I) Rabbit mAb #1	ected to exhibit the same species cross-
Background	All organisms respond to increased temperatures and other expression of highly conserved heat shock proteins (HSPs) denatured proteins and promote the degradation of damage regulated by a family of heat shock factors (HSFs), transcrip response elements (HSEs) located upstream of all heat sho among organisms and contain multiple adjacent and inverse nGAAn-3'. HSFs are less conserved and share only 40% se HSF proteins: HSF1, 2 and 4 are ubiquitous, while HSF3 ha HSF1 induces heat shock gene transcription in response to while HSF2 is involved in spermatogenesis and erythroid ce overlapping functions with HSF1 and HSF2. The inactive for to both the cytoplasm and nucleus, but does not bind DNA ( phosphorylated, forms homotrimers, binds DNA and activate activity is positively regulated by phosphorylation of Ser419 translocation, and phosphorylation of Ser230 by CaMKII, wf Alternatively, HSF1 activity is repressed by phosphorylation respectively, which leads to binding of 14-3-3 protein and see addition, during attenuation from the heat shock response, F HSP40/Hdj-1, and HSF binding protein 1 (HSBP1) (7).	that serve as molecular chaperones to refold ed proteins. Heat shock gene transcription is bitional activators that bind to heat shock eck genes (1). HSEs are highly conserved e iterations of the pentanucleotide motif 5'- equence identity. Vertebrate cells contain four as only been characterized in avian species. heat, heavy metals, and oxidative agents, ell development. HSF3 and HSF4 show rm of HSF1 exists as a monomer that localizes (1,2). In response to stress, HSF1 becomes es heat shock gene transcription (1,2). HSF1 by PLK1, which enhances nuclear nich enhances transactivation (3,4). of serines at 303 and 307 by GSK3 and ERK1, equestration of HSF1 in the cytoplasm (5,6). In
Background References	<ol> <li>Morimoto, R.I. (1998) <i>Genes Dev</i> 12, 3788-96.</li> <li>Mercier, P.A. et al. (1999) <i>J Cell Sci</i> 112 (Pt 16), 2765-74</li> <li>Kim, S.A. et al. (2005) <i>J Biol Chem</i> 280, 12653-7.</li> <li>Holmberg, C.I. et al. (2001) <i>EMBO J</i> 20, 3800-10.</li> <li>Chu, B. et al. (1996) <i>J Biol Chem</i> 271, 30847-57.</li> <li>Wang, X. et al. (2003) <i>Mol Cell Biol</i> 23, 6013-26.</li> <li>Satyal, S.H. et al. (1998) <i>Genes Dev</i> 12, 1962-74.</li> </ol>	
Species Reactivity	Species reactivity is determined by testing in at least one app	proved application (e.g., western blot).
Applications Key Cross-Reactivity Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	

1/1/24, 10:51 AM	HSF1 (D3L8I) Rabbit mAb (PE Conjugate) (#63371) Datasheet Without Images Cell Signaling Technology
	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
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