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e at -20C	HSP70 (D69) Antibody		HE .	Cell Signaling		
Store			Orders	877-616-CELL (2355) orders@cellsignal.com		
76			Suppor	t: 877-678-TECH (8324)		
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#			3 Trask Lane Danve	rs Massachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 70	Source: Rabbit	UniProt ID: #P0DMV8	Entrez-Gene Id: 3303				
Product Usage Information	-	plication estern Blotting		Dilution 1:1000						
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 / Sensi	tivity HSI	HSP70 (D69) Antibody detects endogenous levels of total HSP70 protein.								
Source / Purificati		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide surrounding Asp69 of human HSP70. Antibodies are purified by protein A and peptide affinity chromatography.								
Background Background Refer	mai able sub incl sub mul co-c spe HSI prot are The The	 HSP70 and HSP90 are molecular chaperones expressed constitutively under normal conditions to maintain protein homeostasis and are induced upon environmental stress (1). Both HSP70 and HSP90 are able to interact with unfolded proteins to prevent irreversible aggregation and catalyze the refolding of their substrates in an ATP- and co-chaperone-dependent manner (1). HSP70 has a broad range of substrates including newly synthesized and denatured proteins, while HSP90 tends to have a more limited subset of substrates, most of which are signaling molecules. HSP70 and HSP90 often function collaboratively in a multi-chaperone system, which requires a minimal set of co-chaperones: HSP40, Hop, and p23 (2,3). The co-chaperones either regulate the intrinsic ATPase activity of the chaperones or recruit chaperones to specific substrates or subcellular compartments (1,4). When the ubiquitin ligase CHIP associates with the HSP70/HSP90 complex as a cofactor, the unfolded substrates are subjected to degradation by the proteasome (4). The biological functions of HSP70/HSP90 extend beyond their chaperone activity. They are essential for the maturation and inactivation of nuclear hormones and other signaling molecules (1,3). They also play a role in vesicle formation and protein trafficking (2). 1. Nollen, E.A. and Morimoto, R.I. (2002) <i>J. Cell Sci.</i> 115, 2809-2816. 2. Young, J.C. et al. (2003) <i>Trends Biochem. Sci.</i> 28, 541-547. 								
	3. P	U (D.O. (2003) Exp. B	iol. Med. 228, 111-1						
Species Reactivity	J Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).								
Western Blot Buff		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	WB	WB: Western Blotting								
Cross-Reactivity F	X : X	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 								
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HSP70 (D69) Antibody (#4876) Datasheet Without Images Cell Signaling Technology

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