Store at -20C	HSP90β Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk B	Sensitivity: Endogenous	MW (kDa): 90	Source: Rabbit	UniProt ID: #P08238	Entrez-Gene Id: 3326			
Product Usage Information	•	plication stern Blotting			Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sens		HSP90 β Antibody detects endogenous levels of total HSP90 β protein. It does not cross-react with HSP90 α .							
Source / Purificat	regio	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the region surrounding Val473 of human HSP90 β protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background Background Refe	mair able subs inclu subs mult co-c spec HSF prote are o They erences 1. No 2. Yo 3. Pr	 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. Pratt, W.B. and Toft, D.O. (2003) <i>Exp. Biol. Med.</i> 228, 111-133. 4. Hohfeld, J. et al. (2001) <i>EMBO Rep.</i> 2, 885-890. 							
Species Reactivit	y Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buf		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	X: Xe	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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HSP90ß Antibody (#5087) Datasheet Without Images Cell Signaling Technology

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