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

Applications: React FC-FP H M I	tivity: Sensitivity: Source/Isotype: R Mk Endogenous Rabbit IgG	UniProt ID:         Entrez-Gene Id:           #P08238, #P07900         3326, 3320
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide antibody. Protect from light. Do not freeze.	and 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	HSP90 (C45G5) Rabbit mAb (PE Conjugate) detects en antibody does not cross-react with other HSPs.	ndogenous levels of total HSP90 protein. This
Species predicted to react based on 100% sequence homology:	Bovine	
Source / Purification	Monoclonal antibody is produced by immunizing animals human HSP90.	s with a synthetic peptide surrounding Asn300 of
Product Description	This Cell Signaling Technology antibody is conjugated to flow cytometry analysis in human cells. This antibody is reactivity as the unconjugated HSP90 (C45G5) Rabbit n	expected to exhibit the same species cross-
Background	HSP70 and HSP90 are molecular chaperones expresse maintain protein homeostasis and are induced upon env able to interact with unfolded proteins to prevent irrevers substrates in an ATP- and co-chaperone-dependent man including newly synthesized and denatured proteins, wh substrates, most of which are signaling molecules. HSP multi-chaperone system, which requires a minimal set of co-chaperones either regulate the intrinsic ATPase activ specific substrates or subcellular compartments (1,4). W HSP70/HSP90 complex as a cofactor, the unfolded subs proteasome (4). The biological functions of HSP70/HSP are essential for the maturation and inactivation of nucle They also play a role in vesicle formation and protein tra	vironmental stress (1). Both HSP70 and HSP90 are sible aggregation and catalyze the refolding of their anner (1). HSP70 has a broad range of substrates hile HSP90 tends to have a more limited subset of 270 and HSP90 often function collaboratively in a of co-chaperones: HSP40, Hop, and p23 (2,3). The <i>v</i> ity of the chaperones or recruit chaperones to When the ubiquitin ligase CHIP associates with the ostrates are subjected to degradation by the 290 extend beyond their chaperone activity. They ear hormones and other signaling molecules (1,3).
Background References	<ol> <li>Nollen, E.A. and Morimoto, R.I. (2002) J. Cell Sci. 115</li> <li>Young, J.C. et al. (2003) Trends Biochem. Sci. 28, 54:</li> <li>Pratt, W.B. and Toft, D.O. (2003) Exp. Biol. Med. 228,</li> <li>Hohfeld, J. et al. (2001) EMBO Rep. 2, 885-890.</li> </ol>	11-547.
Species Reactivity	Species reactivity is determined by testing in at least one	e approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vin</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>	

1/1/24, 12:50 PM	HSP90 (C45G5) Rabbit mAb (PE Conjugate) (#70657) Datasheet Without Images Cell Signaling Technology
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