HSP90 (C45G5) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, W-S, IHC-P, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P08238, #P07900	Entrez-Gene Id: 3326, 3320
1011						

WB, W-S, IHC-P, IF-IC, FC-FP	H M R Mk Endogenous	90	Rabbit IgG	#P08238, #P07900	3326, 3320				
Product Usage	Application			Dilutio	on				
Information	Western Blotting		1:1000						
	Simple Western™			1:10 - :	1:50				
	Immunohistochemi	stry (Paraffin)	1:200 - 1:800						
	Immunofluorescend	e (Immunocytoche	1:50						
	Flow Cytometry (Fix	(ed/Permeabilized)	1:50						
Storage	• •	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.							
	For a carrier free (BS	For a carrier free (BSA and azide free) version of this product see product #98099.							
Specificity / Sensitiv	y · /	HSP90 (C45G5) Rabbit mAb detects endogenous levels of total HSP90 protein. This antibody does not cross-react with other HSPs.							
Species predicted to react based on 100% sequence homology									
Source / Purification	Monoclonal antibody human HSP90.	Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Asn300 of human HSP90.							
Background	maintain protein hon able to interact with substrates in an ATF including newly synt substrates, most of multi-chaperone sys co-chaperones eithe specific substrates of HSP70/HSP90 comproteasome (4). The are essential for 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-chaperonese either regulate the intrinsic ATPase activity of the chaperones or recruit chaperones to specific substrates or subscellular 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).							
Background Deferen	οος 1 Nollen ΕΛ and N	Marimata D.I. (2002)) 1 Call Sci 115 280	0_2216					

Background References

- 1. Nollen, E.A. and Morimoto, R.I. (2002) J. Cell Sci. 115, 2809-2816.
- 2. Young, J.C. et al. (2003) Trends Biochem. Sci. 28, 541-547.
- 3. Pratt, W.B. and Toft, D.O. (2003) Exp. Biol. Med. 228, 111-133.
- 4. Hohfeld, J. et al. (2001) EMBO Rep. 2, 885-890.

Species Reactivity

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

HSP90 (C45G5) Rabbit mAb (#4877) Datasheet Without Images Cell Signaling Technology

WB: Western Blotting W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.
All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.