c-Raf Antibody		Cell Signaling TECHNOLOGY®	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#9422	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Mas	ssachusetts   01923   USA	

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

Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 65 to 75	Source: Rabbit	<b>UniProt ID:</b> #P04049	Entrez-Gene Id 5894
Product Usage Information	Ар	plication			Dilution	
		estern Blotting			1:1000	
	Sir	nple Western™			1:10 - 1:50	
Storage		plied in 10 mM sod C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –
Specificity / Sensitiv	<b>/ity</b> c-R	c-Raf Antibody detects endogenous leve		of total c-Raf protei	in.	
Source / Purificatior	regi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to a region surrounding Pro302 of human c-Raf. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	MA mul kina to ir (Se c-R Raf part Thr mut resi mar mar	P kinase pathway (1 tiple activating sites ase (PAK) has been nduce c-Raf activity r445), although this af (Ser259 and Ser6 , and c-Raf are simi cicular interest, B-Ra 439) and lacks a site ation V600E results dues of c-Raf (Ser2 nner consistent with	L). Activation of c-R, , including Ser338, shown to phosphol (3,4). Ser338 of c-F site is constitutively 521) can be phosph lar in sequence and af contains three co e equivalent to Tyr3 in elevated kinase 9, Ser43, Ser289, S c-Raf inactivation.	af is the best unders Tyr341, Thr491, Se ylate c-Raf at Ser3. Raf corresponds to phosphorylated in orylated by Akt and I function, differentiansensus Akt phosph 41 of c-Raf (8,9). R activity and is composed Ser296, Ser301, and The hyperphosphore	ed by GTP-bound Ras to stood and involves phosp er494, Ser497, and Ser49 38, and the Src family ph similar sites in A-Raf (Se B-Raf (5). Inhibitory 14-3 I AMPK, respectively (6,7 al regulation has been of horylation sites (Ser364, research studies have sh monly found in malignant d Ser642) become hyper rylation of these six sites o subsequent activation	bhorylation at 99 (2). p21-activated hosphorylates Tyr341 r299) and B-Raf 3-3 binding sites on 7). While A-Raf, B- bserved (8). Of Ser428, and own that the B-Raf t melanoma (10). Six phosphorylated in a is dependent on
Background Refere	2. C 3. K 4. F 5. M 6. Z 7. S 8. M 9. G 10. D	vruch, J. et al. (199 chong, H. et al. (200 ing, A.J. et al. (1996 abian, J.R. et al. (19 fason, C.S. et al. (19 immermann, S. and prenkle, A.B. et al. farais, R. et al. (199 buan, K.L. et al. (200 ougherty, M.K. et al	1) EMBO J 20, 371 3) Nature 396, 180- 993) Mol Cell Biol 1 999) EMBO J 18, 2 1 Moelling, K. (1999 (1997) FEBS Lett 4 7) J Biol Chem 272 00) J Biol Chem 279 2) Nature 417, 949	6-27. 3. 3, 7170-9. 137-48. ) <i>Science</i> 286, 174: 03, 254-8. , 4378-83. 5, 27354-9. -54.	1-4.	
Species Reactivity	Spec	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).
Western Blot Buffer		DRTANT: For weste 5 Tween® 20 at 4°C	,		ed primary antibody in 59	% w/v BSA, 1X TBS,
Applications Key	WB	: Western Blotting V	V-S: Simple Wester	n™		

3/23/24, 11:38 AM	c-Raf Antibody (#9422) Datasheet Without Images Cell Signaling Technology
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
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