e at -20C	c-Raf (D4B3J) Rabbit mAb	C T	Cell Signaling		
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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #P04049	Entrez-Gene Id: 5894	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
		Immunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		c-Raf (D4B3J) Rabbit mAb recognizes endogenous levels of total c-Raf protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific with a central region of human c-Raf protein.					
Background	r k (C F F T T r r r	A-Raf, B-Raf, and c-Raf MAP kinase pathway (1) multiple activating sites, kinase (PAK) has been s to induce c-Raf activity ((Ser445), although this s c-Raf (Ser259 and Ser62 Raf, and c-Raf are simila particular interest, B-Raf Thr439) and lacks a site mutation V600E results residues of c-Raf (Ser29 manner consistent with o downstream MEK signal	 Activation of c- including Ser338 shown to phosph 3,4). Ser338 of c site is constitutive 21) can be phosp ar in sequence a f contains three c equivalent to Ty in elevated kinas 9, Ser43, Ser289 c-Raf inactivatior 	Raf is the best understo 3, Tyr341, Thr491, Ser43 orylate c-Raf at Ser338, c-Raf corresponds to simely phosphorylated in B- ohorylated by Akt and Al nd function, differential r consensus Akt phosphor r341 of c-Raf (8,9). Res ce activity and is commo , Ser296, Ser301, and S n. The hyperphosphoryla	od and involves phosp 94, Ser497, and Ser49 , and the Src family ph hilar sites in A-Raf (Ser Raf (5). Inhibitory 14-3 MPK, respectively (6,7 regulation has been of ylation sites (Ser364, earch studies have sh nly found in malignant Ser642) become hyper ation of these six sites	ohorylation 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 Refer	2 3 4 5 6 7 7 8 9 10	 Avruch, J. et al. (1994) Chong, H. et al. (2001) King, A.J. et al. (1998) Fabian, J.R. et al. (1975) Mason, C.S. et al. (1960) Zimmermann, S. and Sprenkle, A.B. et al. (1997) Guan, K.L. et al. (2002) Davies, H. et al. (2002) Dougherty, M.K. et al.) EMBO J 20, 37) Nature 396, 180 93) Mol Cell Biol 99) EMBO J 18, Moelling, K. (199 1997) FEBS Lett 7) J Biol Chem 2 0) J Biol Chem 2 2) Nature 417, 94	716-27. 0-3. 13, 7170-9. 2137-48. 09) <i>Science</i> 286, 1741-4 403, 254-8. 72, 4378-83. 75, 27354-9. 19-54.			
Species Reactivity		pecies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe		MPORTANT: For western .1% Tween® 20 at 4°C v			primary antibody in 59	% w/v BSA, 1X TBS,	
Applications Key	v	WB: Western Blotting IP	: Immunoprecipi	tation			
Cross-Reactivity K	X	l: human M: mouse R: r : Xenopus Z : zebrafish :P: Guinea Pig Rab: rab	B: bovine Dg: do	og Pg: pig Sc: S. cerevi		-	

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Limited Uses

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