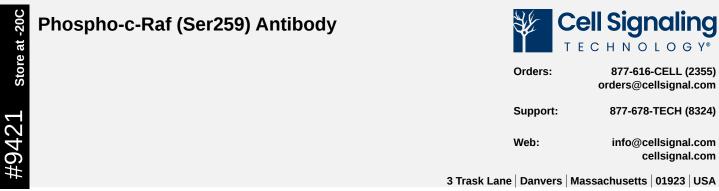
3/23/24, 11:38 AM Revision 1



For Research	lise Only	Not for Use	in Diagnosti	Procedures
FUI RESEAICII	Use Unity.		: III Diayii05li	

Applications: WB, IP	Reactivity: H M R Mk X	Sensitivity: Endogenous	<b>MW (kDa):</b> 74	Source: Rabbit	<b>UniProt ID:</b> #P04049	Entrez-Gene Id: 5894
Product Usage Information	Wes	<b>Dlication</b> stern Blotting nunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensiti		Phospho-c-Raf (Ser259) Antibody detects endogenous levels of c-Raf only when phosphorylated at Ser259.				
Species predicted t react based on 100 sequence homolog	%	ken				
Source / Purificatio	to re			•	h a synthetic phosphope e purified by protein A ar	
Background	MAP multi kinas to ind (Ser4 c-Ra Raf, partid Thr4 muta resid man	kinase pathway (1 iple activating sites, se (PAK) has been duce c-Raf activity ( 445), although this f (Ser259 and Ser6 and c-Raf are simil cular interest, B-Ra 39) and lacks a site ation V600E results lues of c-Raf (Ser29 ner consistent with	). Activation of c-R including Ser338, shown to phospho (3,4). Ser338 of c-I site is constitutively 21) can be phosph ar in sequence and f 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 rylate c-Raf at Ser33 Raf corresponds to s / phosphorylated in horylated by Akt and d function, differentia nsensus Akt phosph 41 of c-Raf (8,9). Re activity and is comm Ser296, Ser301, and The hyperphosphor	d by GTP-bound Ras to stood and involves phosp r494, Ser497, and Ser49 88, and the Src family ph similar sites in A-Raf (Ser B-Raf (5). Inhibitory 14-3 AMPK, respectively (6,7 al regulation has been ob iorylation sites (Ser364, 5) esearch studies have sho nonly found in malignant I Ser642) become hyperp ylation of these six sites o subsequent activation e	horylation at 9 (2). p21-activated osphorylates Tyr341 299) and B-Raf -3 binding sites on ). While A-Raf, B- served (8). Of Ser428, and own that the B-Raf melanoma (10). Six ohosphorylated in a is dependent on
Background Refere	2. Cr 3. Kii 4. Fa 5. Ma 6. Zii 7. Sp 8. Ma 9. Gu 10. Da	rruch, J. et al. (1994 nong, H. et al. (2002 ng, A.J. et al. (1998 abian, J.R. et al. (1998 ason, C.S. et al. (1997 mmermann, S. and prenkle, A.B. et al. (1997 uan, K.L. et al. (2003 avies, H. et al. (2003 bugherty, M.K. et al.	<ol> <li>EMBO J 20, 371</li> <li>Nature 396, 180- 93) Mol Cell Biol 1</li> <li>Mol Cell Biol 1</li> <li>99) EMBO J 18, 2</li> <li>Moelling, K. (1999</li> <li>1997) FEBS Lett 4</li> <li>J Biol Chem 272</li> <li>J Biol Chem 275</li> <li>Nature 417, 949</li> </ol>	6-27. 3. 3, 7170-9. 137-48. ) <i>Science</i> 286, 1741 03, 254-8. 2, 4378-83. 5, 27354-9. -54.	4.	
Species Reactivity	Speci	es reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., we	stern blot).

## Western Blot Buffer

3/23/24, 11:38 AM	Phospho-c-Raf (Ser259) Antibody (#9421) Datasheet Without Images Cell Signaling Technolog 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: Western Blotting IP: Immunoprecipitation	
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>	
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