## Phospho-c-Raf (Ser259) Antibody



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

Applications: W, IP	<b>Reactivity:</b> H M R Mk X	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 74	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P04049	Entrez-Gene Id 5894
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation		<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/Sensitivity		Phospho-c-Raf (Ser259) Antibody detects endogenous levels of c-Raf only when phosphorylated at Ser259.				
Species predicted to react based on 100% sequence homology		Chicken				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser259 of human c-Raf. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		MAP kinase pathway (1 multiple activating site activated kinase (PAK) phosphorylates Tyr341 (Ser299) and B-Raf (Ser 14-3-3 binding sites on (6,7). While A-Raf, B-Ra observed (8). Of partici Ser428, and Thr439) at that the B-Raf mutation melanoma (10). Six reshyperphosphorylated if	1). Activation of c-Ris, including Ser33: has been shown to to induce c-Raf acr445), although thin c-Raf (Ser259 and f, and c-Raf are sirular interest, B-Raf ad lacks a site equin V600E results in idues of c-Raf (Ser in a manner consisted	in effectors recruited by af is the best understoo a, Tyr341, Thr491, Ser49 phosphorylate c-Raf at tivity (3,4). Ser338 of c-F ser621) can be phosphoilar in sequence and fur contains three consensivalent to Tyr341 of c-Raf elevated kinase activity 29, Ser43, Ser289, Ser29 tent with c-Raf inactivat am MEK signaling and reference of the service of the	d and involves pho: 4, Ser497, and Ser4 Ser338, and the Srr Saft corresponds to s iosphorylated in B-forylated by Akt and nction, differential i us Akt phosphoryla f (8,9). Research stu and is commonly fo 6, Ser301, and Ser6 ion. The hyperphos	sphorylation at 99 (2). p21-: family : family : family : fimilar sites in A-Raf Raf (5). Inhibitory AMPK, respectively regulation has been tion sites (Ser364, dies have shown und in malignant 42) become phorylation of
Background References		<ol> <li>Avruch, J. et al. (1994) Trends Biochem Sci 19, 279-83.</li> <li>Chong, H. et al. (2001) EMBO J 20, 3716-27.</li> <li>King, A.J. et al. (1998) Nature 396, 180-3.</li> <li>Fabian, J.R. et al. (1993) Mol Cell Biol 13, 7170-9.</li> <li>Mason, C.S. et al. (1999) EMBO J 18, 2137-48.</li> <li>Zimmermann, S. and Moelling, K. (1999) Science 286, 1741-4.</li> <li>Sprenkle, A.B. et al. (1997) FEBS Lett 403, 254-8.</li> <li>Marais, R. et al. (1997) J Biol Chem 272, 4378-83.</li> <li>Guan, K.L. et al. (2000) J Biol Chem 275, 27354-9.</li> <li>Davies, H. et al. (2002) Nature 417, 949-54.</li> <li>Dougherty, M.K. et al. (2005) Mol Cell 17, 215-24.</li> </ol>				

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at  $4^{\circ}$ C with gentle shaking, overnight. **Western Blot Buffer** 

**Applications Key** W: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** H: Human M: Mouse R: Rat Mk: Monkey X: Xenopus

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