

9696

Phospho-B-Raf (Ser445) Antibody



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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 86	Source/Isotype: Rabbit	UniProt ID: #P15056	Entrez-Gene Id: 673
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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-B-Raf (Ser445) Antibody detects endogenous levels of B-Raf when phosphorylated at serine 445.				
Species predicted to react based on 100% sequence homology		Chicken, Dog				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a phospho synthetic peptide corresponding to residues surrounding serine 445 of human B-Raf. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		MAP kinase pathway multiple activating sit activated kinase (PAK phosphorylates Tyr34 (Ser299) and B-Raf (Se 14-3-3 binding sites o (6,7). While A-Raf, B-R observed (8). Of partiser428, and Thr439) at that the B-Raf mutation melanoma (10). Six rehyperphosphorylated	(1). Activation of c-Res, including Ser336) has been shown to 1 to induce c-Raf acer445), although thin c-Raf (Ser259 and af, and c-Raf are sincular interest, B-Raf and lacks a site equion V600E results in esidues of c-Raf (Ser lin a manner consistent on downstre	in effectors recruited by laf is the best understoo 3, Tyr341, Thr491, Ser49 o phosphorylate c-Raf at ativity (3,4). Ser338 of c-F is site is constitutively phosphorilar in sequence and furnotes to Tyr341 of c-Raf elevated kinase activity a 29, Ser43, Ser289, Ser29 at MEK signaling and reference and reference with c-Raf inactivation and MEK signaling and reference are serviced.	d and involves pho 4, Ser497, and Ser4 Ser338, and the Sro Raf corresponds to so hosphorylated in B-lorylated by Akt and nction, differential lus Akt phosphoryla f (8,9). Research stu and is commonly fo lof, Ser301, and Ser6 ion. The hyperphos	sphorylation at 99 (2). p21- c family similar 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		1. Avruch, J. et al. (1994) <i>Trends Biochem Sci</i> 19, 279-83. 2. Chong, H. et al. (2001) <i>EMBO J</i> 20, 3716-27. 3. King, A.J. et al. (1998) <i>Nature</i> 396, 180-3. 4. Fabian, J.R. et al. (1993) <i>Mol Cell Biol</i> 13, 7170-9. 5. Mason, C.S. et al. (1999) <i>EMBO J</i> 18, 2137-48. 6. Zimmermann, S. and Moelling, K. (1999) <i>Science</i> 286, 1741-4. 7. Sprenkle, A.B. et al. (1997) <i>FEBS Lett</i> 403, 254-8. 8. Marais, R. et al. (1997) <i>J Biol Chem</i> 272, 4378-83. 9. Guan, K.L. et al. (2000) <i>J Biol Chem</i> 275, 27354-9. 10. Davies, H. et al. (2002) <i>Nature</i> 417, 949-54. 11. Dougherty, M.K. et al. (2005) <i>Mol Cell</i> 17, 215-24.				

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

Applications Key W: Western Blotting

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

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