Phospho-Bad (Ser112) (40A9) Rabbit mAb



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| Applications: WB, W-S, IHC-P, FC-FP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 23 | Source/Isotype: Rabbit IgG | UniProt ID: #Q92934 | Entrez-Gene Id 572 | |
|---|---|---|------------------------|--|---|-----------------------|--|
| Product Usage | Aŗ | Application | | | Dilution | | |
| Information | We | Western Blotting | | | 1:1000 | | |
| | Siı | nple Western™ | | | 1:10 | - 1:50 | |
| | Im | Immunohistochemistry (Paraffin) | | | 1:50 - 1:200 | | |
| | Flo | Flow Cytometry (Fixed/Permeabilized) | | | 1:800 | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | | |
| | For | For a carrier-free (BSA and azide free) version of this product see product #94223. | | | | | |
| Ser112. The Ser112 nomenclature is based upon | | | | sed upon the mouse sec . This antibody does not | etects endogenous levels of Bad only when phosphorylated at pon the mouse sequence. The analogous phosphorylation antibody does not detect Bad phosphorylated at other sites, | | |
| Source / Purification | Source / Purification Monoclonal antibody is produced by immunizing animals with residues surrounding Ser112 of mouse Bad. | | | | synthetic phosphopep | tide corresponding to | |
| Background | to E intr Pho bet Bao PK | Bad is a proapoptotic member of the Bcl-2 family that promotes cell death by displacing Bax from binding to Bcl-2 and Bcl-xL (1,2). Survival factors, such as IL-3, inhibit the apoptotic activity of Bad by activating intracellular signaling pathways that result in the phosphorylation of Bad at Ser112 and Ser136 (2). Phosphorylation at these sites promotes binding of Bad to 14-3-3 proteins to prevent an association between Bad with Bcl-2 and Bcl-xL (2). Akt phosphorylates Bad at Ser136 to promote cell survival (3,4). Bad is phosphorylated at Ser112 both <i>in vivo</i> and <i>in vitro</i> by p90RSK (5,6) and mitochondria-anchored PKA (7). Phosphorylation at Ser155 in the BH3 domain by PKA plays a critical role in blocking the dimerization of Bad and Bcl-xL (8-10). | | | | | |
| Background Refer | 1. Yang, E. et al. (1995) <i>Cell</i> 80, 285-291. 2. Zha, J. et al. (1996) <i>Cell</i> 87, 619-628. 3. Datta, S.R. et al. (1997) <i>Cell</i> 91, 231-241. 4. Peso, L. et al. (1997) <i>Science</i> 278, 687-689. 5. Bonni, A. et al. (1999) <i>Science</i> 286, 1358-1362. 6. Tan, Y. et al. (1999) <i>J. Biol. Chem.</i> 274, 34859-34867. 7. Harada, H. et al. (1999) <i>Mol. Cell</i> 3, 413-422. 8. Tan, Y. et al. (2000) <i>J. Biol. Chem.</i> 275, 25865-25869. 9. Lizcano, J. et al. (2000) <i>Biochem. J.</i> 349, 547-557. 10. Datta, S. et al. (2000) <i>Mol. Cell</i> 6, 41-51. | | | | | | |

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

WB: Western Blotting W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

Phospho-Bad (Ser112) (40A9) Rabbit mAb (#5284) Datasheet Without Images Cell Signaling Technology

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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