

Store at -20C

#9292

Bad Antibody



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 23	Source/Isotype: Rabbit	UniProt ID: #Q92934	Entrez-Gene Id: 572
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

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

Bad Antibody detects endogenous levels of total Bad protein. The antibody does not cross-react with related proteins.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser112 of mouse Bad. Antibodies are purified by protein A and peptide affinity chromatography.

Background

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 *in vivo* and *in vitro* 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 References

1. Yang, E. et al. (1995) *Cell* 80, 285-291.
2. Zha, J. et al. (1996) *Cell* 87, 619-628.
3. Datta, S.R. et al. (1997) *Cell* 91, 231-241.
4. Peso, L. et al. (1997) *Science* 278, 687-689.
5. Bonni, A. et al. (1999) *Science* 286, 1358-1362.
6. Tan, Y. et al. (1999) *J. Biol. Chem.* 274, 34859-34867.
7. Harada, H. et al. (1999) *Mol. Cell* 3, 413-422.
8. Tan, Y. et al. (2000) *J. Biol. Chem.* 275, 25865-25869.
9. Lizcano, J. et al. (2000) *Biochem. J.* 349, 547-557.
10. Datta, S. et al. (2000) *Mol. Cell* 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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