| δ IκBβ Antibody | Cell Signaling TECHNOLOGY® | | |
|--|--|--|--|
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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): 48 | Source/Isotype: Rabbit | UniProt ID: #Q15653 | Entrez-Gene Id 4793 | |
|------------------------------|---|---|---|---|-------------------------------|---------------------------------|--|
| 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/Sens | sitivity | ΙκΒβ Antibody detects endogenous levels of total ΙκΒβ protein independent of phosphorylation. | | | | | |
| Source / Purific | ation | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the middle of human and mouse ΙκΒβ. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | |
| Background | | The NF-κB/Rel transcription factors are present in the cytosol in an inactive state complexed with the inhibitory IκB proteins (1-3). Activation occurs via phosphorylation of IκBα at Ser32 and Ser36 followed by proteasome-mediated degradation that results in the release and nuclear translocation of active NF-κB (3-7). IκBα phosphorylation and resulting Rel-dependent transcription are activated by a highly diverse group of extracellular signals including inflammatory cytokines, growth factors, and chemokines. Kinases that phosphorylate IκB at these activating sites have been identified (8). The regulation of IκBβ and IκBε is similar to that of IκBα. However, the phosphorylation and ubiquitin-mediated degradation of these proteins occurs with much slower kinetics (9). IKK phosphorylation of IκBβ occurs at Ser19 and Ser23, while IκBε can be phosphorylated at Ser18 and Ser22 (10). | | | | | |
| Background Re | ferences | 1. Baeuerle, P.A. and I 2. Beg, A.A. and Baldy 3. Finco, T.S. et al. (19 4. Brown, K. et al. (199 5. Brockman, J.A. et al 6. Traenckner, E.B. et 7. Chen, Z.J. et al. (199 8. Karin, M. and Ben-f 9. Hoffmann, A. et al. 10. Shirane, M. et al. (| vin, A.S. (1993) <i>Gen</i> 94) <i>Proc Natl Acad</i> 95) <i>Science</i> 267, 148 I. (1995) <i>Mol Cell Bio</i> al. (1995) <i>EMBO J</i> 14 96) <i>Cell</i> 84, 853-62. Veriah, Y. (2000) <i>An</i> (2002) <i>Science</i> 298, | <i>es Dev</i> 7, 2064-70. 5 <i>ci USA</i> 91, 11884-8. 5-8. 6/15, 2809-18. 9, 2876-83. <i>nu Rev Immunol</i> 18, 621 1241-1245. | -63. | | |
| Species Reactiv | ity | Species reactivity is d | etermined by testin | g in at least one approve | ed application (e.g., | western blot). | |
| Western Blot B | uffer | 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 Ke | y | W: Western Blotting | | | | | |
| Cross-Reactivit | у Кеу | H: Human M: Mouse | R: Rat Mk: Monkey | | | | |
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