

## NF-κB1 p105/p50 (D4P4D) Rabbit mAb (PE Conjugate)



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| Applications:<br>FC-FP       | <b>Reactivity:</b><br>H M R  | <b>Sensitivity:</b><br>Endogenous  | <b>Source/Isotype:</b><br>Rabbit IgG | <b>UniProt ID:</b><br>#P25799 | <b>Entrez-Gene Id:</b><br>18033 |  |
|------------------------------|--|--|--------------------------------------|-------------------------------|---------------------------------|--|
| Product Usage<br>Information |  | <b>Application</b><br>Flow Cytometry (Fixed/Permeabilized)   |                                      |                               | Dilution<br>1:50                |  |
| Storage                      |  | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.   |                                      |                               |                                 |  |
| Specificity/Sensit           | <b>pecificity/Sensitivity</b> NF-κB1 p105/p50 (D4P4D) Rabbit mAb (PE Conjugate) recognizes endogenous levels p105/p50 protein. |  |                                      |                               | ogenous levels of total NF-κB1  |  |
| Source / Purificat           | tion   | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to<br>residues surrounding Ile415 of mouse NF-кB1 p105/p50 protein.   |                                      |                               |                                 |  |
| Description                  |  | This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for<br>direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species<br>cross-reactivity as the unconjugated NF-κB1 p105/p50 (D4P4D) Rabbit mAb #13586.   |                                      |                               |                                 |  |
| Background                   |  | Transcription factors of the nuclear factor κB (NF-κB)/Rel family play a pivotal role in inflammatory and immune responses (1,2). There are five family members in mammals: RelA, c-Rel, RelB, NF-κB1 (p105/p50), and NF-κB2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF-κB is sequestered in the cytoplasm by IkB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IkB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-κB to enter the nucleus where it regulates gene expression (6-8). NIK and IKKα (IKK1) regulate the phosphorylation and processing of NF-κB2 (p100) to produce p52, which translocates to the nucleus (9-11). |                                      |                               |                                 |  |
| Background Refe              | erences  | 1. Baeuerle, P.A. and Henkel, T. (1994) Annu Rev Immunol 12, 141-79.   2. Baeuerle, P.A. and Baltimore, D. (1996) Cell 87, 13-20.   3. Haskill, S. et al. (1991) Cell 65, 1281-9.   4. Thompson, J.E. et al. (1995) Cell 80, 573-82.   5. Whiteside, S.T. et al. (1997) EMBO J 16, 1413-26.   6. Traenckner, E.B. et al. (1995) EMBO J 14, 2876-83.   7. Scherer, D.C. et al. (1995) Proc Natl Acad Sci USA 92, 11259-63.   8. Chen, Z.J. et al. (1995) Cell 84, 853-62.   9. Senftleben, U. et al. (2001) Science 293, 1495-9.   10. Coope, H.J. et al. (2002) EMBO J 21, 5375-85.   11. Xiao, G. et al. (2001) Mol Cell 7, 401-9.  |                                      |                               |                                 |  |
| Species Reactivit            | у  | Species reactivity is deter  | rmined by testing in at le           | ast one approved ap           | plication (e.g., western blot). |  |
| Applications Key             |  | FC-FP: Flow Cytometry (Fixed/Permeabilized)  |                                      |                               |                                 |  |
| Cross-Reactivity             | Кеу  | H: Human M: Mouse R: Rat   |                                      |                               |                                 |  |
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