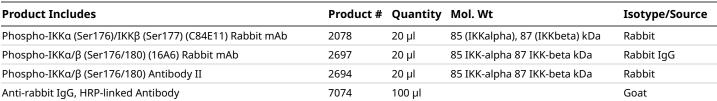
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Cell Signaling Phospho-IKKα/β (Ser176/180) Antibody Sampler Kit Orders: Support: 1 Kit (3 x 20 microliters) Web: 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures.



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Description	The Phospho-IKKalpha/beta (Ser176/180) Antibody Sampler Kit contains reagents to examine protein levels of IKKalpha when phosphorylated at Ser176/180 and IKKbeta when phosphorylated at Ser177/181. The kit contains primary and secondary antibodies to perform two Western blots with each antibody.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
Background	The NF- κ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I κ B proteins (1-3). Most agents that activate NF- κ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I κ B (3-7). The key regulatory step in this pathway involves activation of a high molecular weight I κ B kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKK α and IKK β serve as the catalytic subunits of the kinase and IKK γ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK β (Ser176 and Ser180 in IKK α), which causes conformational changes, resulting in kinase activation (10-13).
Background References	 Baeuerle, P.A. and Baltimore, D. (1988) <i>Science</i> 242, 540-6. Beg, A.A. and Baldwin, A.S. (1993) <i>Genes Dev</i> 7, 2064-70. Finco, T.S. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 11884-8. Brown, K. et al. (1995) <i>Science</i> 267, 1485-8. Brockman, J.A. et al. (1995) <i>Mol Cell Biol</i> 15, 2809-18. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83. Chen, Z.J. et al. (1997) <i>Cell</i> 91, 243-52. Karin, M. (1999) <i>Oncogene</i> 18, 6867-74. DiDonato, J.A. et al. (1997) <i>Nature</i> 388, 548-54. Mercurio, F. et al. (1997) <i>Science</i> 278, 860-6. Johnson, L.N. et al. (1996) <i>Cell</i> 85, 149-58. Delhase, M. et al. (1999) <i>Science</i> 284, 309-13.
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