



#9966 Store at -20C

IKK Isoform Antibody Sampler Kit

1 Kit (4 x 20 microliters)

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
IKK α (3G12) Mouse mAb	11930	20 μ l	85 kDa	Mouse IgG1
IKK β (D30C6) Rabbit mAb	8943	20 μ l	87 kDa	Rabbit IgG
IKK γ (DA10-12) Mouse mAb	2695	20 μ l	50 kDa	Mouse IgG1
IKK ϵ Antibody	2690	20 μ l	80 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 μ l		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 μ l		Horse

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The IKK Isoform Antibody Sampler Kit provides an economical means to investigate NF κ B signaling within the cell. 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 μ g/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) *Science* 242, 540-6.
- Beg, A.A. and Baldwin, A.S. (1993) *Genes Dev* 7, 2064-70.
- Finco, T.S. et al. (1994) *Proc Natl Acad Sci USA* 91, 11884-8.
- Brown, K. et al. (1995) *Science* 267, 1485-8.
- Brockman, J.A. et al. (1995) *Mol Cell Biol* 15, 2809-18.
- Traenckner, E.B. et al. (1995) *EMBO J* 14, 2876-83.
- Chen, Z.J. et al. (1996) *Cell* 84, 853-62.
- Zandi, E. et al. (1997) *Cell* 91, 243-52.
- Karin, M. (1999) *Oncogene* 18, 6867-74.
- DiDonato, J.A. et al. (1997) *Nature* 388, 548-54.
- Mercurio, F. et al. (1997) *Science* 278, 860-6.
- Johnson, L.N. et al. (1996) *Cell* 85, 149-58.
- Delhase, M. et al. (1999) *Science* 284, 309-13.

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