

Kit Includes	Quantity	Applications	Reactivity	MW (kDa)	Isotype
IKKα Antibody #2682	40 μ l	W IP	H M R Mk (B)	85	Rabbit
IKKβ Antibody #2684	40 μ l	W	H Mk	87	Rabbit
IKKγ Antibody #2685	40 μ l	W IHC-P	H M R Mk	48	Rabbit
IKKϵ Antibody #2690	40 μ l	W	H M R	80	Rabbit
Anti-rabbit IgG, HRP-linked Antibody #7074	100 μ l				Goat

Applications Key: W=Western Blotting IP=Immunoprecipitation IHC-P=Immunohistochemistry (Paraffin)

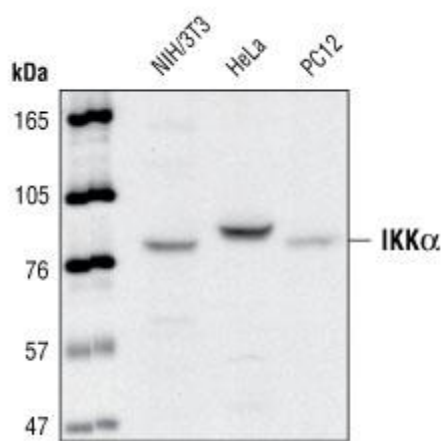
Reactivity Key: H=Human M=Mouse R=Rat Mk=Monkey B=Bovine

Species enclosed in parentheses are predicted to react based on 100% sequence homology.

Specificity / Sensitivity

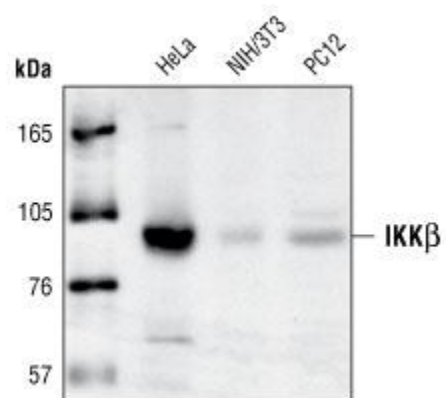
IKK α , IKK β , IKK γ , and IKK ϵ antibodies detect endogenous levels of total IKK α , IKK β , IKK γ and IKK ϵ proteins, respectively. These antibodies do not cross-react with IKK subunits other than their specified target.

Western Blotting



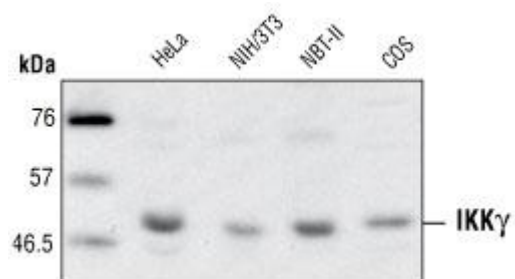
Western blot analysis of extracts from NIH/3T3, HeLa and PC12 cells using IKK α Antibody #2682.

Western Blotting



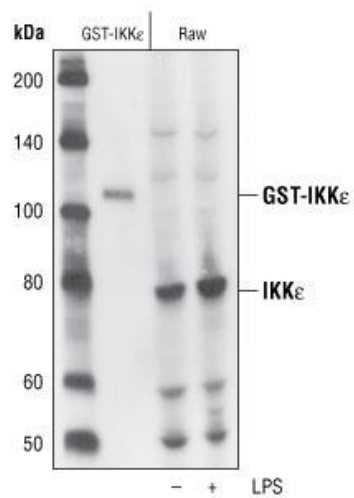
Western blot analysis of extracts from HeLa, NIH/3T3 and PC12 cells using IKK β Antibody #2684.

Western Blotting



Western blot analysis of extracts from various cell types using IKK γ Antibody #2685.

Western Blotting



Western blot analysis of recombinant IKK ϵ Kinase #7553 and Raw 264.7 cells, untreated or LPS-treated, using IKK ϵ Antibody #2690.

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 four Western blots with each antibody.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxyl terminus of human IKK β , IKK ϵ and IKK γ , to the 20 amino-terminal residues of human IKK α . Antibodies are purified by protein A and peptide affinity chromatography.

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).

1. [Baeuerle, P.A. and Baltimore, D. \(1988\) *Science* 242, 540-6.](#)
2. [Beg, A.A. and Baldwin, A.S. \(1993\) *Genes Dev* 7, 2064-70.](#)
3. [Finco, T.S. et al. \(1994\) *Proc Natl Acad Sci USA* 91, 11884-8.](#)
4. [Brown, K. et al. \(1995\) *Science* 267, 1485-8.](#)
5. [Brockman, J.A. et al. \(1995\) *Mol Cell Biol* 15, 2809-18.](#)
6. [Traenckner, E.B. et al. \(1995\) *EMBO J* 14, 2876-83.](#)
7. [Chen, Z.J. et al. \(1996\) *Cell* 84, 853-62.](#)
8. [Zandi, E. et al. \(1997\) *Cell* 91, 243-52.](#)
9. [Karin, M. \(1999\) *Oncogene* 18, 6867-74.](#)
10. [DiDonato, J.A. et al. \(1997\) *Nature* 388, 548-54.](#)
11. [Mercurio, F. et al. \(1997\) *Science* 278, 860-6.](#)
12. [Johnson, L.N. et al. \(1996\) *Cell* 85, 149-58.](#)
13. [Delhase, M. et al. \(1999\) *Science* 284, 309-13.](#)