

## Monoclonal Antibody to IKKe/IKKi

<b>Alternate names:</b>	IkappaK iota/epsilon
<b>Catalog No.:</b>	SM7045P
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Host / Isotype:</b>	Mouse / IgG
<b>Clone:</b>	107A1458
<b>Immunogen:</b>	This antibody was raised against a His-tagged full-length human IKKe protein.
<b>Applications:</b>	Western blot analysis: 2 µg/ml. An 80 kDa band should be observed. This antibody will cross-react with mouse IKKe. Recommended Positive Control: Daudi, HeLa, or NIH 3T3. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	NF-κB (nuclear factor κB) is sequestered in the cytoplasm by IκB family of inhibitory proteins that mask the nuclear localization signal of NF-κB thereby preventing translocation of NF-κB to the nucleus (1). External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IκB releasing NF-κB dimers. NF-κB dimer subsequently translocates to the nucleus and activates target genes. Synthesis of IκBa is autoregulated (2). IκB proteins are phosphorylated by IκB kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g (3-5). Recently, using a subtractive hybridization technique, a novel kinase, IKKi/IKKe has been isolated (6). LPS increases IKKi mRNA level in mouse macrophage cell lines. This protein has significant sequence homology with kinase domains of IKK1/a and IKK-2/b. Overexpression of wild type IKK-i in cells phosphorylates Ser32 and Ser36 of IκBa. Reacts with human and mouse.
<b>Storage:</b>	Store undiluted at 4°C, stable for 6 months. Do not freeze. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Verma, I.M., Stevenson, J.K., Schwarz, E.M., Van Antwerp, D. & Miyamoto, S. Genes. Dev. 9: 2723-2735 (1995). 2. Verma, I. And Stevenson, J.K. Proc. Nat. Acad. Sci. USA 94: 11758 (1997). 3. Didonato, J.A., Hayakawa, M., Rothwarf, D.M., Zandi, E., and Karin, M. Nature 388: 548- (1997). 4. Regnier, C.H., Ho, Y.S., Gao, X., Goeddel, D.V., Cao, Z., and Rothe, M. Cell 90, 373 (1997). 5. Mercurio, F., Zhu, H., Murray, B.W., Shevchenko, A., Bennett, B.L., Li, J., Young, D.B., Barbosa, M., Mann, M., Manning, A., Rao, A. Science 278: 860 (1997). 6. Shimada T, et al. Int. Immun