Catalog No. LF-MA0192

MONOCLONAL ANTIBODY

Anti- IκB kinase β (IKKβ) (42D1)

Background : IκB kinase β (IKKβ) is a component of a multiprotein kinase complex that regulates the activity of the transcription factor NF-κB. Activation of the IKK complex via upstream stimuli leads to phosphorylation and degradation of NF-κB bound IκB (Inhibitor of κB). Subsequently, free NF-κB dimers enter the nucleus and regulate the transcription of a variety of target genes involved in cell proliferation and differentiation, apoptosis, and inflammation, etc. The IKK complex consists of 2 highly homologous kinase subunits, IKKα and IKKβ, and a nonenzymatic regulatory component, IKKγ/NEMO. The relative contributions of IKKα and IKKβ to the signaling complex vary according to the requirements of the cell. IKKβ plays a predominant role in immune responses, while IKKα alone appears to be sufficient for at least some developmental systems. Recently, IKK/NF-κB signaling pathway was studied as therapeutic targets in cancer.

Immunogen : Recombinant human protein purified from *E.coli* (His-IKKbeta)

Host : Mouse
Clone number : 42D1

Isotype : IgG2b, k

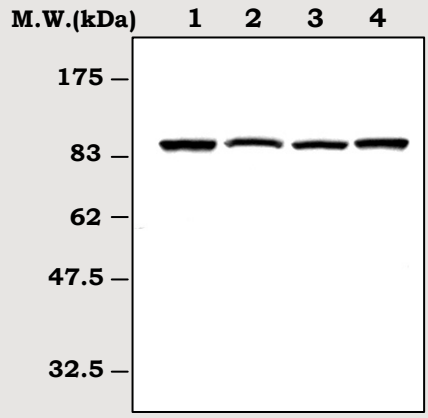
Size : 100 µℓ
Compositon : Hepes with 0.15 M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

Positive control : K562 cell lysate

Storage : Store for 1 year at –20℃ from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	+	+



Immunoblot Analysis of cell lysates
Lane 1 : K562 cell lysate
Lane 2 : NIH3T3 cell lysate
Lane 3 : C6 cell lysate
Lane 4 : HeLa cell lysate

Applications :
ELISA
Western blotting (1: 5,000)
Immunoprecipitation (2 µℓ/400 µℓ cell lysates)

Background Reference :

1) Kim H.J., et al., 2006, Cell Death Differ.13:738-747
2) Luo J.L. et al., 2005, J Clin Invest. 115:2625-2632
3) Clarkson R., 2002, Breast Cancer Res. 4:173-175
4) DiDonato J.A., 2001, Sci STKE. 2001(97):PE1

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