Product Datasheet

IKK beta Antibody

Catalog No: CY5636 Reactivity: Human Mouse

Isotype: Rabbit IgG Applications: WB IP

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Information

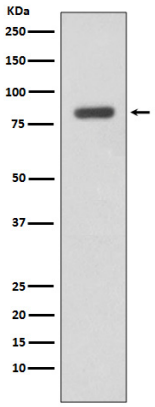
UniProt ID: O14920
All Names: EC 2.7.11.10; I-kappa-B kinase 2; I-kappa-B-kinase beta; IKK-B; IKK-beta; IKK2; IKKB; IkBKB; NFKBIKB; Nuclear factor NF-kappa-B inhibitor kinase beta; kinase IKK-beta;
Form: Liquid
Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity: Affinity-chromatography
Immunogen: A synthesized peptide
Molecular Wt.: 87 kDa

Application

WB: 1:500~1:2000
IP: 1:50

Background

The NF-κB/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory IκB proteins (1-3). Most agents that activate NF-κB do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of IκB (3-7). The key regulatory step in this pathway involves activation of a high molecular weight IκB kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKKα and IKKβ serve as the catalytic subunits of the kinase and IKKγ serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation of Ser177 and Ser181 in the activation loop of IKKβ (Ser176 and Ser180 in IKKα), which causes conformational changes resulting in kinase activation (10-13).



Western blot analysis of IKK beta expression in Daudi cell lysate.