

IKK β antibody

3026-2B

Applications

Western blot
Immunoprecipitation

Species cross reactivity

Human, Mouse, Rat

Molecular weight

87 kDa

Background

I κ B kinases (Ikks) are related kinases that play a major role in the regulation of NF- κ B (nuclear factor κ B) activation, a transcription factor activated in response to infectious agents and pro-inflammatory cytokines. NF- κ B is sequestered in the cytoplasm in an inactive form by the I κ B family of inhibitory proteins that mask the nuclear localization signal of NF- κ B, thereby preventing translocation of NF- κ B to the nucleus. Activation of NF- κ B is mediated by phosphorylation of I κ B on specific serine residues, which results in targeted proteasome-mediated degradation of I κ B. This releases NF- κ B dimers from the cytoplasmic NF- κ B - I κ B complex allowing NF- κ B to translocate to the nucleus where it regulates the transcription of numerous target genes. The serine phosphorylation of I κ B is regulated by the IKK complex. The IKK complex is comprised of at least three tightly associated subunits: IKK α , IKK β and IKK γ . IKK α and IKK β serve as the catalytic subunits of the kinase and IKK γ serves as the regulatory subunit.

NCBI protein accession number

O14920

Source and purification

Polyclonal antibodies are produced by immunizing sheep with a synthetic peptide (KLH-coupled), followed by affinity purification.

FOR RESEARCH USE ONLY

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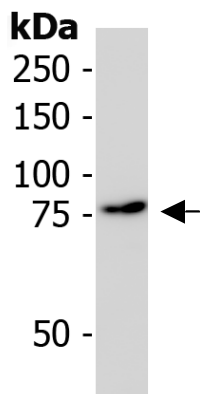


Storage and use

100 µg supplied as lyophilised protein in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, and 0.05 % sodium azide. Store at 4 °C. Reconstitute in 100 µl of sterile water. This product is for in vitro use only.

Recommended antibody dilutions

Western blotting 2 µg/ml
Immunoprecipitation 5 µg/500 µg lysate



Western blot analysis of extracts from HEK293 cells.

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