

## Product datasheet for **AP06526PU-M**

### IKK beta (IKBKB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 171-220 of Human IKK $\beta$ .
Specificity:	This antibody detects endogenous levels of IKK-beta protein. (region surrounding Leu193)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 86 kDa
Gene Name:	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
Database Link:	<a href="#">Entrez Gene 3551 Human O14920</a>



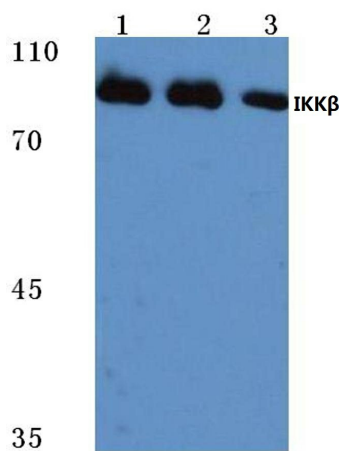
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**Background:**

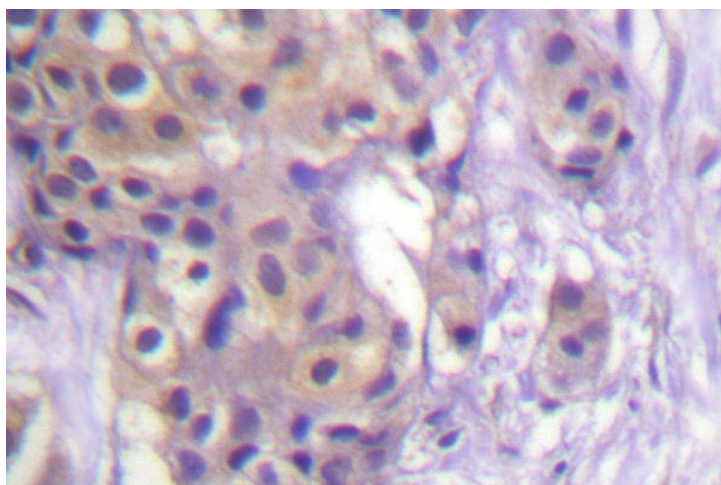
The transcription factor NFkappaB is retained in the cytoplasm in an inactive form by the inhibitory protein IkappaB. Activation of NFkappaB requires that IkappaB be phosphorylated on specific serine residues, which results in targeted degradation of IkappaB. IkappaB kinase alpha (IKKalpha), previously designated CHUK, interacts with IkappaB-alpha and specifically phosphorylates IkappaB-alpha on Serines 32 and 36, the sites that trigger its degradation. IKKalpha appears to be critical for NFkappaB activation in response to proinflammatory cytokines. Phosphorylation of IkappaB by IKKalpha is stimulated by the NFkappaB inducing kinase (NIK), which itself is a central regulator for NFkappaB activation in response to TNF and IL-1. The functional IKK complex contains three subunits, IKKalpha, IKKbeta and IKKgamma (also designated NEMO), and each appear to make essential contributions to IkappaB phosphorylation.

**Synonyms:**

I-kappa-B-kinase beta, IKK-beta, IKK-B, I-kappa-B kinase 2, IKK2, NFKB1KB

**Product images:**


Western blot (WB) analysis of IKK $\beta$  antibody at 1/500 dilution Lane 1:THP-1 whole cell lysate treated with LPS Lane 2:Raw264.7 whole cell lysate treated with LPS Lane 3:PC12 whole cell lysate treated with LPS



Immunohistochemistry (IHC) analysis of IKK- $\beta$  antibody in paraffin-embedded human breast carcinoma tissue.