

## Product datasheet for **TA305996**

### IKK beta (IKBKB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5 ug/mL, ICC: 10 ug/mL, IF: 10 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	IKK beta antibody was raised against a peptide corresponding to amino acids near the carboxy-terminus of human IKK beta (Genbank accession NoO14920), which differs from corresponding murine sequence by one amino acid.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
Database Link:	<a href="#">NP_001547</a> <a href="#">Entrez Gene 3551 Human</a> <a href="#">O14920</a>



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**Background:**

Nuclear factor kappa B (NF-kappaB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-kappaB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFalpha, and bacteria product LPS. NF-kappaB is associated with I kappaB proteins in the cell cytoplasm, which inhibit NF-kappaB activity. The long-sought I kappaB kinase (IKK), which phosphorylates I kappaB, and mediates I kappaB degradation and NF-kappaB activation, was recently identified by several laboratories (1-5). IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKKalpha and IKKbeta). IKKalpha and IKKbeta interact with each other and both are essential for NF-kappaB activation. IKKbeta phosphorylates both I kappaB-alpha and I kappaB-beta. IKKbeta is expressed in variety of human tissues.

**Synonyms:**

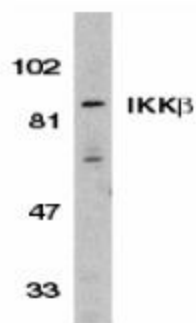
IKK-beta; IKK2; IKKB; IMD15; NFKBIKB

**Protein Families:**

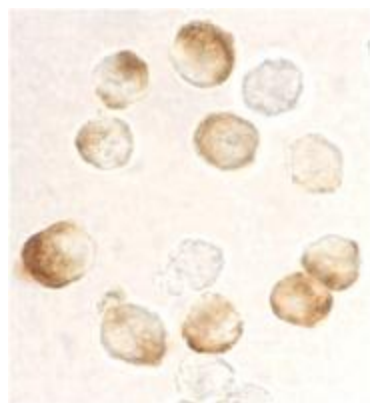
Druggable Genome, Protein Kinase, Transcription Factors

**Protein Pathways:**

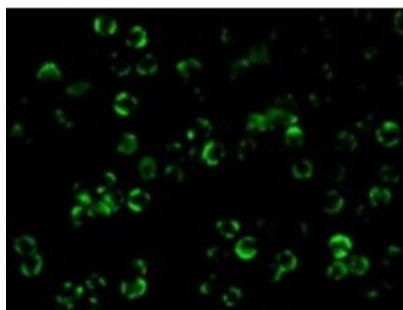
Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus

**Product images:**

Western blot analysis of IKK beta in Jurkat whole cell lysate with IKK beta antibody (C3) at 1:500 dilution.



Immunocytochemistry staining of HeLa cells using IKK beta antibody at 10 ug/mL.



Immunofluorescence of IKK beta in HeLa cells with IKK beta antibody at 10 ug/mL.