

Product datasheet for **TA354896**

IKK alpha (CHUK) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide surrounding of -QGSLCTS-of human IKK- α/β protein with a single phosphorylation site. This sequence is identical to human, rat, mouse and bovine.
Formulation:	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	87 kDa
Gene Name:	conserved helix-loop-helix ubiquitous kinase
Database Link:	NP_001269 Entrez Gene 12675 Mouse Entrez Gene 309361 Rat Entrez Gene 1147 Human O15111



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Background:	Nuclear factor kappa B (NFkappaB) is a ubiquitous and an essential mediator of gene expression during activation of immune and inflammatory responses. NFkappaB mediates the expression of a great variety of genes in response to extracellular stimuli. NFkappaB is associated with I-kappaB proteins in the cell cytoplasm, which inhibit NFkappaB activity. I-kappaB is phosphorylated by I-kappaB kinase (IKK) complex that contains IKKalpha, IKKbeta, and IKKgamma. A novel molecule in the IKK complex was recently identified and designated IKKepsilon/IKK-iota. The NFkB complex is inhibited by I-kappa-B proteins, which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFkB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs.
Synonyms:	IKBKA; IKK-alpha; IKK1; IKKA; NFKBIKA; TCF16
Protein Families:	Druggable Genome, Protein Kinase
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, MAPK 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