

## Product datasheet for **TA321322**

### IKK alpha (CHUK) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of threonine 23 (L-G-T(p)-G-G) derived from Human IKK a.
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85 kDa
Gene Name:	conserved helix-loop-helix ubiquitous kinase
Database Link:	<a href="#">NP_001269</a> <a href="#">Entrez Gene 12675 Mouse</a> <a href="#">Entrez Gene 309361 Rat</a> <a href="#">Entrez Gene 1147 Human</a> <a href="#">O15111</a>



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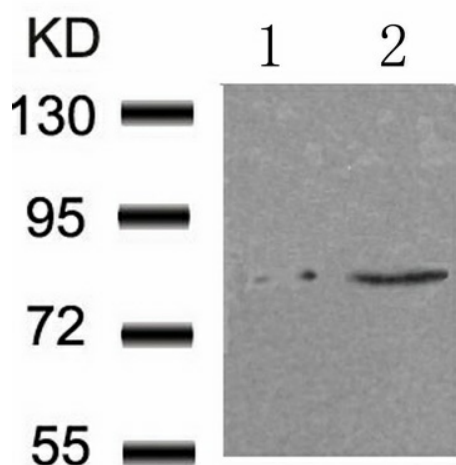
**Background:** Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.

**Synonyms:** IKBKA; IKK-alpha; IKK1; IKKA; NFKBIKA; TCF16

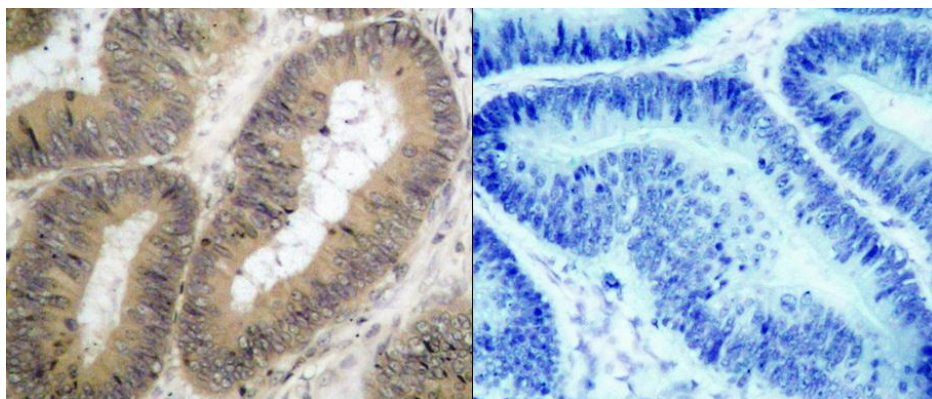
**Protein Families:** Druggable Genome, Protein Kinase

**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

### Product images:



Predicted band size: 85 kDa. Positive control: 293 cells treated with serum lysate. Recommended dilution: 1/ 500-1000. (Gel: 8%SDS-PAGE Lane 1: 293 cells untreated with serum lysate Lane 2: 293 cells treated with serum lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasm; Nucleus.  
Positive control: Human colon carcinoma tissue.  
Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human colon carcinoma tissue using CHUK (Phospho-Thr23) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification:x200)