



[Go to Product page](#)

Datasheet for ABIN7138810
anti-IKK alpha antibody (pThr23)

3 Images

Overview

Quantity:	100 µL
Target:	IKK alpha (CHUK)
Binding Specificity:	pThr23
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKK alpha antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 23 (L-G-T(p)-G-G) derived from Human IKK a.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

Target:	IKK alpha (CHUK)
Alternative Name:	CHUK (CHUK Products)

Target Details

Background:

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.

Yuan ZQ, et al.(2002) J Biol Chem, 277(33): 29973-82.

Ozes ON, et al. (1999) Nature, 401(6748): 82-5.

Aliases: chuk antibody, CHUK1 antibody, Conserved Helix Loop Helix Ubiquitous Kinase antibody, Conserved helix loop ubiquitous kinase antibody, Conserved helix-loop-helix ubiquitous kinase antibody, I Kappa B Kinase 1 antibody, I Kappa B Kinase Alpha antibody, I-kappa-B kinase 1 antibody, I-kappa-B kinase alpha antibody, IkappaB kinase antibody, Ikb kinase alpha subunit antibody, IkbKA antibody, IKK 1 antibody, IKK A antibody, IKK a kinase antibody, IKK-A antibody, IKK-alpha antibody, IKK1 antibody, IKKA antibody, IKKA_HUMAN antibody, Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B Cells antibody, Inhibitor Of Nuclear Factor Kappa B Kinase Alpha Subunit antibody, Inhibitor of nuclear factor kappa-B kinase subunit alpha antibody, NFKBIKA antibody, Nuclear Factor Kappa B Inhibitor Kinase Alpha antibody, Nuclear factor NF kappa B inhibitor kinase alpha antibody, Nuclear factor NF-kappa-B inhibitor kinase alpha antibody, Nuclear factor NFKappaB inhibitor kinase alpha antibody, Nuclear Factor Of Kappa Light Chain Gene Enhancer In B Cells Inhibitor antibody, TCF-16 antibody, TCF16 antibody, Transcription factor 16 antibody

UniProt:

[O15111](#)

Pathways:

[PI3K-Akt Signaling](#), [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [BCR Signaling](#), [Ubiquitin Proteasome Pathway](#), [S100 Proteins](#)

Application Details

Application Notes:

WB:1:500-1:1000, IHC:1:50-1:100,

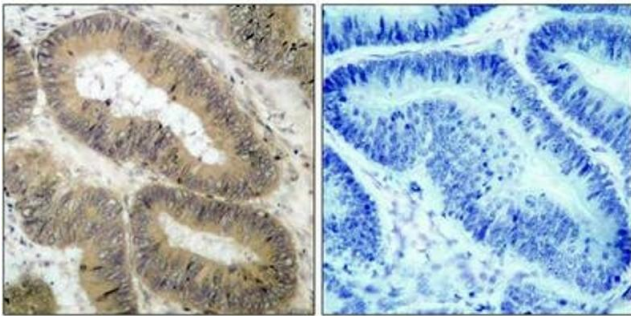
Restrictions:

For Research Use only

Handling

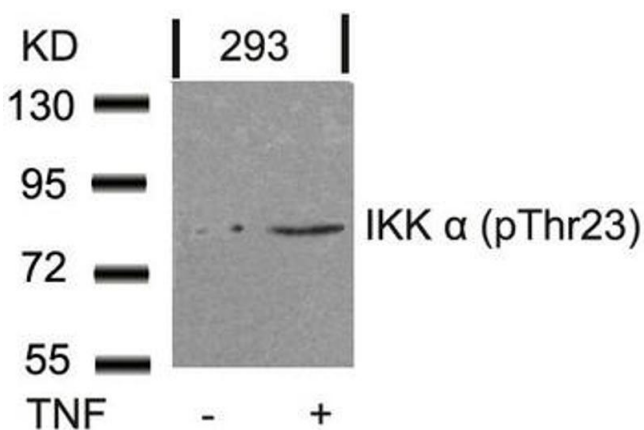
Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



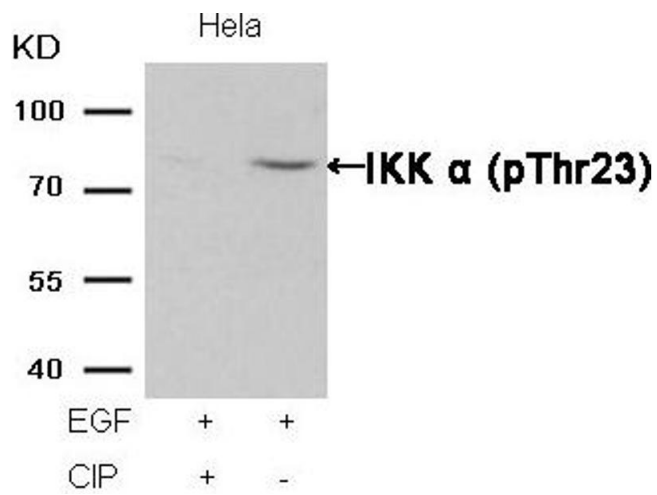
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using IKK α (Phospho-Thr23) Antibody(left) or the same antibody preincubated with blocking peptide(right).



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells untreated or treated with TNF using IKK α (Phospho-Thr23) Antibody.



Western Blotting

Image 3. Western blot analysis of extracts from HeLa cells, treated with EGF or calf intestinal phosphatase (CIP), using IKK α (Phospho-Thr23) Antibody.