



IKKα Polyclonal Antibody

Catalog No	BYab-14780
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	CHUK
Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit alpha
Immunogen	The antiserum was produced against synthesized peptide derived from human IKK-alpha. AA range:15-64
Specificity	IKKα Polyclonal Antibody detects endogenous levels of IKKα protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHUK; IKKA; TCF16; Inhibitor of nuclear factor kappa-B kinase subunit alpha; I-kappa-B kinase alpha; IKK-A; IKK-alpha; IkBKA; IkappaB kinase; Conserved helix-loop-helix ubiquitous kinase; I-kappa-B kinase 1; IKK1; Nuclear factor NF-kappa-B
Observed Band	85kD
Cell Pathway	Cytoplasm . Nucleus . Shuttles between the cytoplasm and the nucleus.
Tissue Specificity	Widely expressed.
Function	catalytic activity:ATP + [I-kappa-B protein] = ADP + [I-kappa-B phosphoprotein] ,enzyme regulation:Activated when phosphorylated and inactivated when dephosphorylated.,function: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

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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.,PTM:Phosphorylated by MAP3K14/NIK, AKT and to a lesser extent by MEKK

Background

This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquitination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

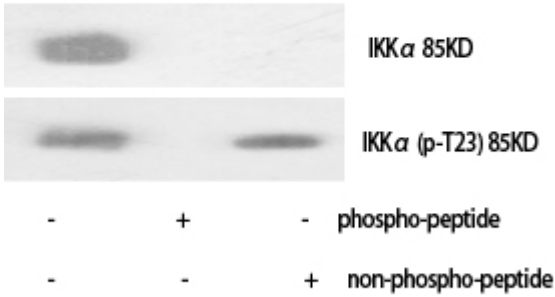
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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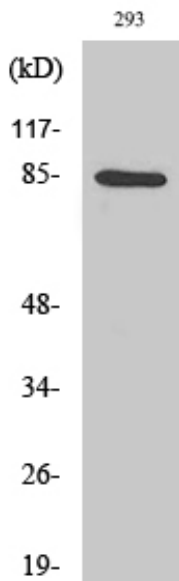


Products Images

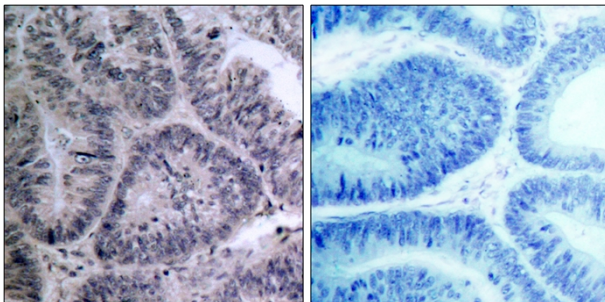
Western Blot analysis of various cells using IKK α Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293 cells using IKK α Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using IKK-alpha Antibody. The picture on the right is blocked with the synthesized peptide.

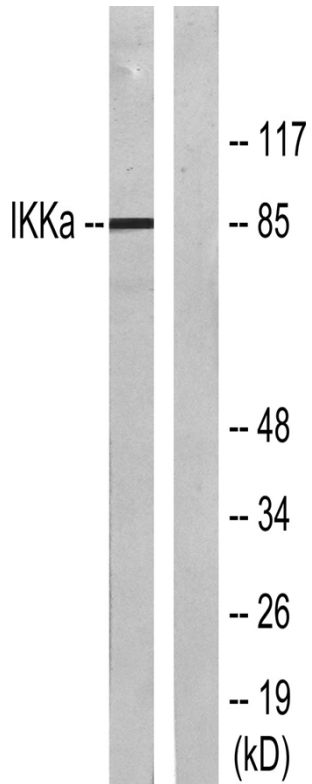


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Western blot analysis of lysates from 293 cells, treated with EGF, using IKK-alpha Antibody. The lane on the right is blocked with the synthesized peptide.