

IKK alpha Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8108a

Product Information

Application	WB, E
Primary Accession	<u>015111</u>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB2159
Calculated MW	84640

Additional Information

Gene ID	1147
Other Names	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 inhibitor kinase alpha, NFKBIKA, Transcription factor 16, TCF-16, CHUK, IKKA, TCF16
Target/Specificity	This IKK alpha antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the full length sequence of human IKK alpha.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IKK alpha Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	СНИК
Synonyms	IKKA, TCF16

(PubMed: <u>18626576</u> , PubMed: <u>9244310</u> , PubMed Acts as a part of the canonical IKK complex in t NF-kappa-B activation and phosphorylates inhi residues (PubMed: <u>18626576</u> , PubMed: <u>3595280</u> PubMed: <u>9252186</u> , PubMed: <u>9346484</u>). These m polyubiquitination of the inhibitors and subsec proteasome (PubMed: <u>18626576</u> , PubMed: <u>9244</u> PubMed: <u>9346484</u>). In turn, free NF-kappa-B is i and activates the transcription of hundreds of j response, growth control, or protection agains: PubMed: <u>9244310</u> , PubMed: <u>9252186</u> , PubMed: <u>9</u> the pathway by phosphorylating the scaffold pi promoting the assembly of the A20/TNFAIP3 ul (composed of A20/TNFAIP3, TAX1BP1, and the (PubMed: <u>21765415</u>). Therefore, CHUK plays a I feedback of NF-kappa-B canonical signaling to activation. As part of the non-canonical pathwa MAP3K14-activated CHUK/IKKA homodimer ph associated with RelB, inducing its proteolytic pi the formation of NF-kappa-B RelB-p52 complex turn, these complexes regulate genes encoding survival and lymphoid organogenesis. Also par feedback of the non-canonical NF-kappa-B sign phosphorylating and destabilizing MAP3K14/NI phosphorylates CREBBP and consequently incr and histone acetyltransferase activities (PubMe chromatin accessibility at NF-kappa-B- respons phosphorylating histones H3 at 'Ser-10' that ar 'Lys-14' by CREBBP (PubMed: <u>12789342</u>). Additi CREBBP-interacting protein NCOA3. Also phosp regulate this pro-apoptotic transcription factor Phosphorylates RIPK1 at 'Ser-25' which repress consequently prevents TNF-mediated RIPK1-de similarity). Phosphorylates AMBRA1 following r promoting AMBRA1 interaction with ATG8 fam activity (PubMed: <u>30217973</u>).	ibitors of NF-kappa-B on serine 08, PubMed:9244310, iodifications allow quent degradation by the 4310, PubMed:9252186, translocated into the nucleus genes involved in immune at apoptosis (PubMed:18626576, 9346484). Negatively regulates protein TAXBP1 and thus ibiquitin-editing complex E3 ligases ITCH and RNF11) key role in the negative limit inflammatory gene ay of NF-kappa-B activation, the hosphorylates NFKB2/p100 processing to NFKB2/p52 and xes (PubMed:20501937). In g molecules involved in B-cell rticipates in the negative naling pathway by IK. Within the nucleus, reases both its transcriptional ed:17434128). Modulates sive promoters by re subsequently acetylated at ionally, phosphorylates the phorylates FOXO3 and may r (PubMed:15084260). ses its kinase activity and ependent cell death (By mitophagy induction, ily proteins and its mitophagic
Cytoplasm. Nucleus Note=Shuttles between the	e cytoplasm and the nucleus

Tissue LocationWidely expressed.

Background

Cellular Location

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 ubiquination pathway, thereby activating the transcription factor.

References

Yamamoto, Y., et al., Nature 423(6940):655-659 (2003). Charalambous, M.P., et al., Br. J. Cancer 88(10):1598-1604 (2003). Takaesu, G., et al., J. Mol. Biol. 326(1):105-115 (2003). Albanese, C., et al., Mol. Biol. Cell 14(2):585-599 (2003). Munzert, G., et al., Blood 100(10):3749-3756 (2002).

Images



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.