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Datasheet for ABIN6262511 anti-IKK alpha antibody (N-Term)

3 Images



Overview

Quantity:	100 µL
Target:	IKK alpha (CHUK)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKK alpha antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human IKK alpha, corresponding to a region within N- terminal amino acids.
Isotype:	lgG
Specificity:	IKK alpha Antibody detects endogenous levels of total IKK alpha.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

IKK alpha (CHUK)

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Target Details	
Alternative Name:	CHUK (CHUK Products)
Background:	Description: Serine kinase that plays an essential role in the NF-kappa-B signaling pathway
	which is activated by multiple stimuli such as inflammatory cytokines, bacterial or viral
	products, DNA damages or other cellular stresses. Acts as part of the canonical IKK complex in
	the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-
	B on serine residues. These modifications allow polyubiquitination of the inhibitors and
	subsequent degradation by the proteasome. In turn, free NF-kappa-B is translocated into the
	nucleus and activates the transcription of hundreds of genes involved in immune response,
	growth control, or protection against apoptosis. Negatively regulates the pathway by
	phosphorylating the scaffold protein TAXBP1 and thus promoting the assembly of the
	A20/TNFAIP3 ubiquitin-editing complex (composed of A20/TNFAIP3, TAX1BP1, and the E3
	ligases ITCH and RNF11). Therefore, CHUK plays a key role in the negative feedback of NF-
	kappa-B canonical signaling to limit inflammatory gene activation. 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. In turn, these complexes
	regulate genes encoding molecules involved in B-cell survival and lymphoid organogenesis.
	Participates also in the negative feedback of the non-canonical NF-kappa-B signaling pathway
	by phosphorylating and destabilizing MAP3K14/NIK. Within the nucleus, phosphorylates
	CREBBP and consequently increases both its transcriptional and histone acetyltransferase
	activities. Modulates chromatin accessibility at NF-kappa-B-responsive promoters by
	phosphorylating histones H3 at 'Ser-10' that are subsequently acetylated at 'Lys-14' by CREBBP
	Additionally, phosphorylates the CREBBP-interacting protein NCOA3. Also phosphorylates
	FOXO3 and may regulate this pro-apoptotic transcription factor (PubMed:15084260).
	Gene: CHUK
Molecular Weight:	85kDa
Gene ID:	1147
UniProt:	015111
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

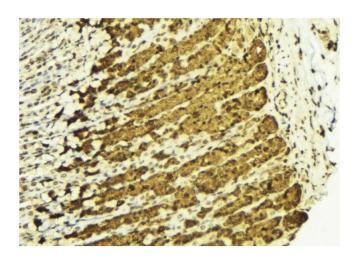
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6262511 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

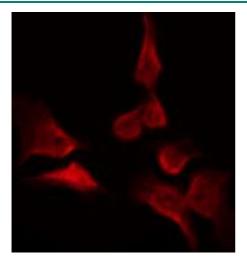
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

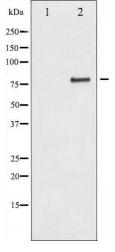
Images



Immunohistochemistry

Image 1. ABIN6269050 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.





Immunofluorescence (fixed cells)

Image 2. ABIN6269050 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 3. Western blot analysis of IKK-alpha expression in EGF treated 293 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

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