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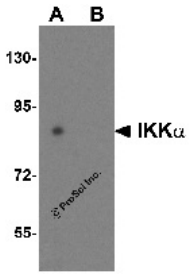
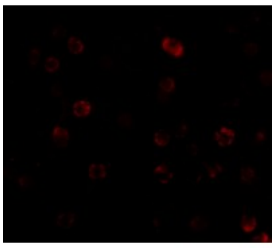
IKK alpha Antibody

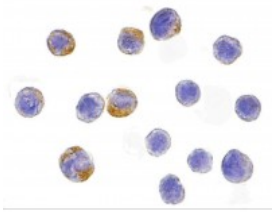
CATALOG NUMBER: 2115



Western blot analysis of IKK alpha in HeLa cell lysate with IKK alpha antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of IKKa in HeLa cells with IKKa antibody at 2 ug/mL.



Immunocytochemistry of IKK alpha in HeLa cells with IKK alpha antibody at 10 ug/mL.

Specifications

SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (94%)
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	IKK alpha antibody can be used for detection of IKK alpha by Western blot 0.5 ug/mL. A 85 kDa band should be detected. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1201 - HeLa Cell Lysate
PREDICTED MOLECULAR WEIGHT:	85 kDa
SPECIFICITY:	This polyclonal antibody has no cross response to IKKb or IKKy.
IMMUNOGEN:	IKK alpha antibody was raised against a 17 amino acid peptide near the carboxy terminus of human IKK alpha. The immunogen is located within the last 50 amino acids of IKK alpha.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	IKK alpha Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	IKK alpha Antibody is supplied in PBS containing 0.02% sodium azide.
STORAGE CONDITIONS:	IKK alpha antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	IKK alpha Antibody: IKK1, IKKA, IKBKA, TCF16, NFKBIKA, IKK-alpha, Inhibitor of nuclear factor kappa-B kinase subunit alpha, Conserved helix-loop-helix ubiquitous kinase, I-kappa-B kinase alpha
ACCESSION NO.:	AF009225
PROTEIN GI NO.:	2327068
OFFICIAL SYMBOL:	CHUK
GENE ID:	1147

Background

BACKGROUND:	IKK alpha Antibody: Nuclear factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFα and bacteria product LPS. NF-κB is associated with IκB proteins in the cell cytoplasm, which inhibit NF-κB activity. The long-sought IκB kinase (IKK), which phosphorylates IκB, and mediates IκB degradation and NF-κB activation, was recently identified by several laboratories. IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKKα and IKKβ). IKKα and IKKβ interact with each other and both are essential for the NF-κB activation. IKKα specifically phosphorylates IκB-alpha. IKKα is expressed in a variety of human tissues.
REFERENCES:	1) DiDonato JA, Hayakawa M, Rothwarf DM, Zandi E, Karin M. A cytokine-responsive IκB kinase that activates the transcription factor NF-κB. Nature 1997;388:548-54
	2) Regnier CH, Song HY, Gao X, Goeddel DV, Cao Z, Rothe M. Identification and characterization of an IκB kinase. Cell 1997;90:373-83
	3) Zandi E, Rothwarf DM, Delhase M, Hayakawa M, Karin M. The IκB kinase complex (IKK) contains two kinase subunits, IKKα and IKKα, necessary for IκB phosphorylation and NF-κB activation. Cell 1997;91:243-52
	4) Woronicz JD, Gao X, Cao Z, Rothe M, Goeddel DY. IκB kinase-β: NF-κB activation and complex formation with IκB kinase-α and NIK. Science 1997;278:866-9

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