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Datasheet for 600-401-BT9

IKK alpha Antibody

Overview

Description:	Anti-IKK alpha (RABBIT) Antibody - 600-401-BT9
Item No.:	600-401-BT9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Nuclear factor kappa B (NF-kB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-kB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFa, and bacteria product LPS. NF-kB is associated with IkB proteins in the cell cytoplasm, which inhibit NF-kB activity. The long-sought IkB kinase (IKK), which phosphorylates IkB, and mediates IkB degradation and NF-kB activation, was recently identified by several laboratories. IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKKa and IKKb). IKKa and IKKb interact with each other and both are essential for the NF-kB activation. IKKa specifically phosphorylates IkB-alpha. IKKa is expressed in variety of human tissues.
Synonyms:	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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CHUK
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IKK alpha antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the C-terminus of human IKK alpha.
Purity/Specificity:	Anti-IKK alpha Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Antibody has no cross response to IKKb or IKKg.
Relevant Links:	• UniProtKB - O15111 • GeneID - 1147 • NCBI - AF009225

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IKK alpha Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 85 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
WB:	1 µg/mL

Formulation

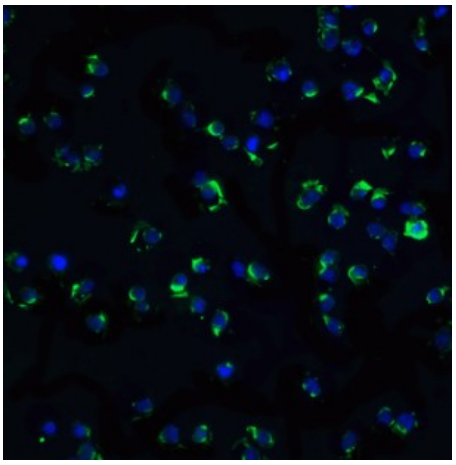
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

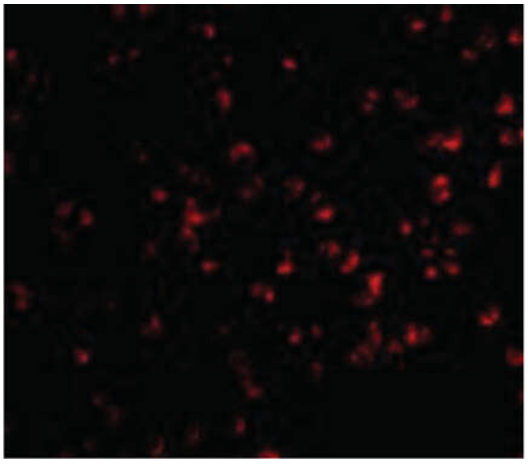
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

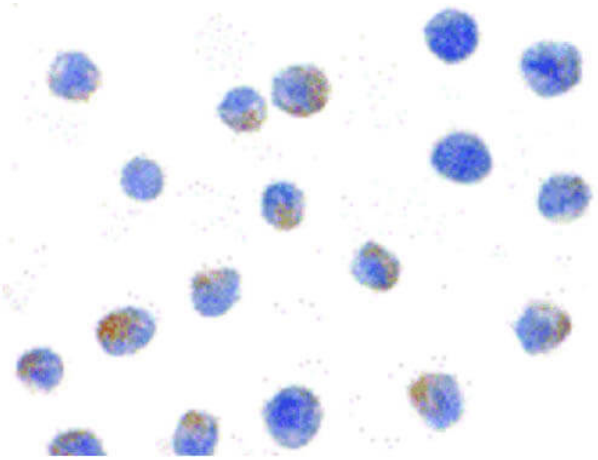
Images



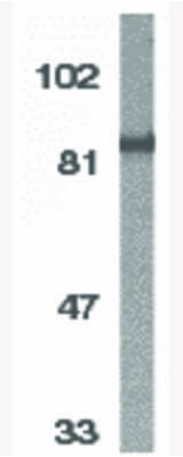
Immunofluorescence Microscopy
Immunofluorescence of IKKa in Jurkat cells with IKK alpha antibody at 20 µg/mL. Green: IKK alpha Antibody. Blue: DAPI staining.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of IKK alpha antibody. Tissue: Jurkat cells Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IKK alpha antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IKK alpha is nuclear and cytoplasmic. Staining: IKK aplha as red fluorescent signal.



Immunocytochemistry
Immunocytochemistry of IKK alpha antibody. Cells: Jurkat cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IKK alpha antibody at 1 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IKK alpha is nuclear and cytoplasmic. Staining: IKK alpha as precipitated brown signal with hematoxylin blue nuclear counterstain.



Western Blot
Western Blot of IKK alpha antibody. Lane 1: HeLa whole cell lysate. Load: 35 µg per lane. Primary antibody: IKK alpha antibody at 1:1000 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 84.6 kDa, 86 kDa for IKK alpha.

Disclaimer

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