Datasheet for ABIN6655971

anti-NFKBIA antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	NFKBIA
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NFKBIA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunoprecipitation (IP), Chromatin Immunoprecipitation (ChIP)

Product Details

Purpose:	IKB alpha Antibody
Immunogen:	IkB alpha Antibody was produced in mice prepared by repeated immunizations of recombinant protein corresponding to internal amino acids in the human IkB alpha protein.
Clone:	6A920
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with IkBα from Human and Mouse based on 100 % homology with the immunizing sequence.
Purification:	Anti-IkBα Antibody was purified by Protein G chromatography.

Target Details

Target:	NFKBIA
Alternative Name:	IkB alpha (NFKBIA Products)
Background:	Synonyms: IKBA, MAD3, NFKBI, NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IkB-alpha, IkappaBalpha, Major histocompatibility complex enhancer-binding protein MAD3 Background: Anti-IkB alpha detects human IkB alpha. NF-kB is silenced in the cytoplasm by an inhibitory protein, IkB. Synthesis of IkBa is autoregulated. IkB proteins are phosphorylated by IkB kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IkB releasing NF-kB dimers. NF-kB dimer subsequently translocates to the nucleus and activates target genes. Six members of IkB family members have been identified. One of the first gene induced following NF-kB activation is IkBa. Anti-IkB alpha antibody is ideal for investigators involved in NFkappaB, kinase and phosphatase research. Gene Name: FKBIA
Gene ID:	4792
NCBI Accession:	NP_065390
UniProt:	P25963
Pathways:	NF-kappaB Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Maintenance of Protein Location, Hepatitis C, Protein targeting to Nucleus, Toll-Like Receptors Cascades, BCR Signaling

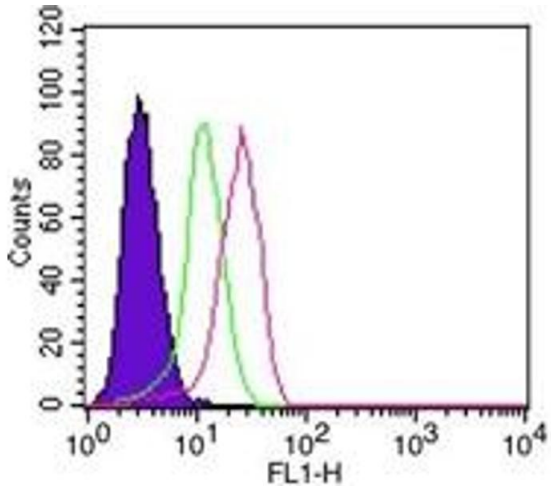
Application Details

Application Notes:	Immunoprecipitation_Dilution: 1 µg/mL Flow_Cytometry_Dilution: 0.25-1 µg/10^6 cells Western_Blot_Dilution: 1-2 µg/mL Other: User Optimized
Comment:	Anti-IkB alpha antibody is tested for use in WB, Flow, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 35kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

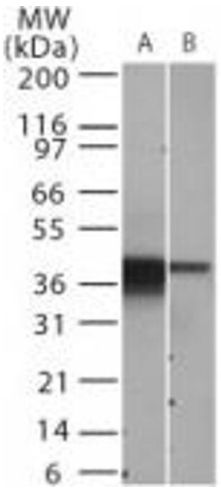
Format:	Liquid
Buffer:	Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 ,0.05 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



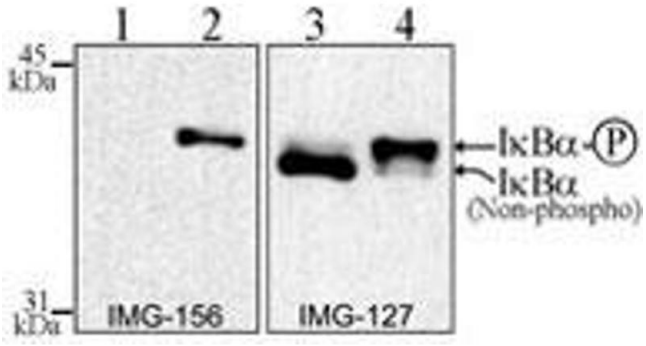
Flow Cytometry

Image 1. IkB alpha Flow Cytometry Flow Cytometry of Mouse Anti-IkB alpha antibody. Cells: 10^6 ThP-1 cells. Stimulation: none. Primary Antibody: IkBa antibody at 0.25 µg/mL (red) and isotype control (green). Secondary Antibody: anti-mouse IgG FITC.



Western Blotting

Image 2. IkB alpha Western Blot. Western Blot of Mouse Anti-IkB alpha antibody. Lane 1: Daudi cells. Lane 2: NIH 3T3 whole cell lysate. Load: 30 µg per lane. Primary antibody: IkB alpha antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 35.6 kDa for IkBa. Other band(s): none.



Western Blotting

Image 3. IkB alpha Western Blot. Western Blot of Mouse Anti-IkB alpha antibody. Jurkat cells treated with with 100µg/mL pf ALLN for 30 min. Lane 1: Lysate without 1 nM TNF-a. Lane 2: Lysate with 1 nM TNF-a. Lane 3: Lysate without 1 nM TNF-a. Lane 4: Lysate with 1 nM TNF-a. Load: 30 µg per lane. Primary antibody: IkB alpha antibody at 4 µg/mL for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 35.6 kDa for IkB alpha. Other band(s): both IkB alpha Phoshpo and non-phoshpo.