

Datasheet for 200-301-H80**IKB alpha Antibody****Overview**

Description:	Anti-IkB α (MOUSE) Monoclonal Antibody - 200-301-H80
Item No.:	200-301-H80
Size:	100 μ g
Applications:	ChIP, FC, IF, IHC, IP, WB
Reactivity:	Human, Mouse
Host Species:	Mouse

Product Details

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.
Synonyms:	IKBA, MAD3, NFKBI, NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IkB-alpha, IkappaBalph, Major histocompatibility complex enhancer-binding protein MAD3
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	6A920
Format:	IgG1

Target Details

Gene Name:	NFKBIA
Reactivity:	Human, Mouse
Immunogen Type:	Recombinant Protein

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.
Purity/Specificity:	Anti-IkB α Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with IkB α from Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-IkB α from other sources has not been determined.
Relevant Links:	• UniProtKB - P25963 • NCBI - NP_065390.1 • GeneID - 4792

Application Details

Tested Applications:	ChIP, FC, IF, IHC, IP, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	0.25-1 μ g/10 ⁶ cells
IP:	1 μ g/mL
WB:	1-2 μ g/mL

Formulation

Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

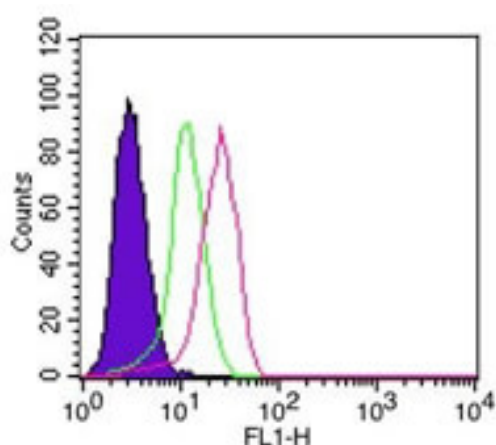
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

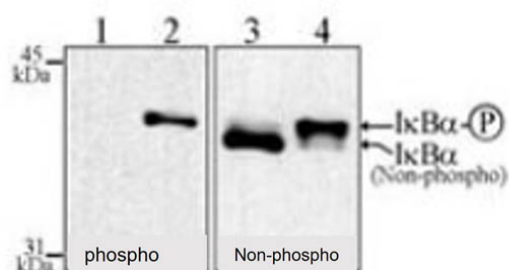
Expiration: Expiration date is one (1) year from date of receipt.

Images



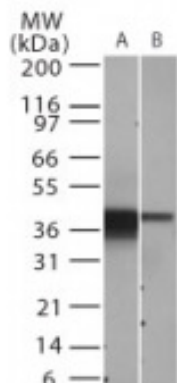
Flow Cytometry

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 Blot

Western Blot of Mouse Anti-IkB alpha antibody. Jurkat cells treated with 00µg/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: IRDye800™ 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 Phospho and non-phospho.

**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: IRDye800™ 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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.