

Datasheet for 200-301-H81**IKB alpha Ser32 Ser36 Antibody****Overview**

Description:	Anti-IkB α Ser32 Ser36 (MOUSE) Monoclonal Antibody - 200-301-H81
Item No.:	200-301-H81
Size:	100 μ g
Applications:	ELISA, IF, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-IkB α Ser32 Ser36 Antibody detects human IkBa. NF- κ B 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 initiates a signal transduction cascade that leads to the activation of IkB-kinase complex that specifically phosphorylates IkBa on Serine-32 and Serine-36. Phosphorylation of these sites leads to ubiquitination of IkBa and subsequent degradation by the 26 S proteasome. Degradation of IkBa results in unmasking of the nuclear localization signal of NF- κ B dimers, which 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- κ B activation is IkBa. Anti-IkB α Ser32 Ser36 Antibody is ideal for investigators involved in NF κ B, kinase and phosphatase research.
Synonyms:	IKBA, MAD3, NFKBI, NF-kappa-B inhibitor alpha, I-kappa-B-alpha, IkB-alpha, IkappaBalpha, Major histocompatibility complex enhancer-binding protein MAD3
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	39A1413
Format:	IgG1

Target Details

Gene Name:	NFKBIA
-------------------	--------

Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	IkB alpha Ser32 Ser36 Antibody was produced in mice prepared by repeated immunizations with a synthetic peptide containing phosphorylated serines at human IkBa 32 and 36.
Purity/Specificity:	Anti-IkBα Ser32 Ser36 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-IkBα Ser32 Ser36 from Bovine, Dog, Human, Mouse, Pig and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-IkBα Ser32 Ser36 from other sources has not been determined.
Relevant Links:	• UniProtKB - P25963 • NCBI - NP_065390.1 • GeneID - 4792

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-IkBα Ser32 Ser36 Antibody is tested for use in IP, Peptide ELISA and WB. 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.
IP:	1-2 µg/mL
WB:	1-2 µg/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

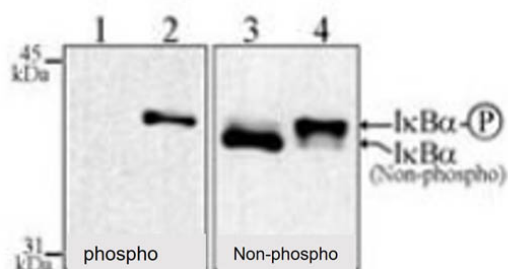
Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------

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



Western Blot

Western Blot of Mouse Anti-IκBα Ser32 Ser36 antibody. Jurkat cells treated with 100μg/mL pf ALLN for 30 min. Lane 1: Lysate without 1 nM TNF-α. Lane 2: Lysate with 1 nM TNF-α. Lane 3: Lysate without 1 nM TNF-α. Lane 4: Lysate with 1 nM TNF-α. Load: 30 μg per lane. Primary antibody: IκBα Ser32 Ser36 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 IκBα Ser32 Ser36. Other band(s): both IκBα Phospho and non-phospho.

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.