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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-301-H86

IKK gamma Antibody

Overview

Description:	Anti-IKKγ (MOUSE) Monoclonal Antibody - 200-301-H86
Item No.:	200-301-H86
Size:	100 µg
Applications:	FC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-IKK gamma detects human IKKgamma. NF-kappaB (nuclear factor kB) is sequestered in the cytoplasm by IkB family of inhibitory proteins that mask the nuclear localization signal of NF-kappaB thereby preventing translocation of NF-kB to the nucleus. 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. Synthesis of IkBa is autoregulated. IkB proteins are phosphorylated by IkB kinase complex consisting of at least three proteins, IKKalpha, IKKbeta, and IKKgamma (NEMO). NEMO (NF-kB Essential MOdulator) preferentially interacts with IKK2/b and is required for activation of IKK complex. Recent data suggest that the human T-cell leukemia virus type I Tax oncoprotein that activates NF-kB binds neither to IKKalpha nor IKKbeta, but complexes directly with NEMO. This suggests that NEMO may be a key molecule acting as an adapter for onco-protein specific signaling to IKKa and IKKb. Anti-IKKgamma antibody is ideal for investigators involved in NFkappaB, kinase and growth factor research.
Synonyms:	FIP3, NEMO, NF-kappa-B essential modulator, NEMO, FIP-3, IkB kinase-associated protein 1, IKKAP1, Inhibitor of nuclear factor kappa-B kinase subunit gamma, I-kappa-B kinase subunit gamma, IKK-gamma, IKKG, IkB kinase subunit gamma, NF-kappa-B essential modifier
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	46B844
Format:	IgG1

Target Details

Gene Name:	IKBKG
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	IKK gamma Antibody was produced in mice prepared by repeated immunizations with human IKKgamma (NEMO) protein at full-length.
Purity/Specificity:	Anti-IKKg Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with IKKg from Human based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-IKKg from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y6K9 • NCBI - NP_001093326.2 • GeneID - 8517

Application Details

Tested Applications:	FC, WB
Application Note:	Anti-IKKgamma antibody is tested for use in Flow (I) and WB. Expect a band approximately 48kDa 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:	0.1-0.5/10^6 cells
WB:	2 µg/mL

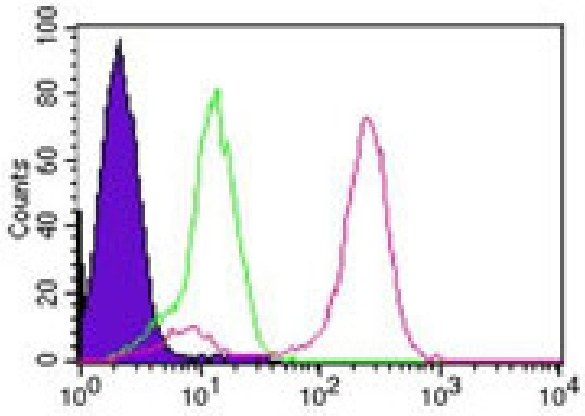
Formulation

Physical State:	Liquid
Concentration:	0.5 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
Stabilizer:	0.05% BSA

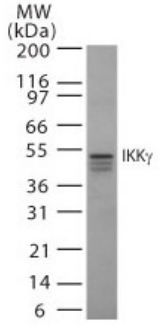
Shipping & Handling

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



Flow Cytometry
Flow Cytometry of Mouse Anti- IKKgamma antibody. Cells: Human Jurkat cells. Stimulation: none. Primary Antibody: Jurkat cells with NEMO antibody at 0.1 µg/mL (red) and 0.1 µg/mL isotype control (green).
Secondary Antibody: goat anti-mouse IgG FITC.



Western Blot
Western Blot of Mouse Anti-IKKgamma antibody. Lane 1: Lysate from human Jurkat cells with NEMO antibody. Primary antibody: IKKgamma antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: Goat anti-mouse Ig HRP. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 40 kDa for IKKgamma . 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.