

Datasheet for 200-301-H84

IKK beta Antibody

Overview

Description:	Anti-IKK β (MOUSE) Monoclonal Antibody - 200-301-H84
Item No.:	200-301-H84
Size:	100 μ g
Applications:	FC, IF, IHC, IP, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-IKK β IKK2 Antibody detects human IKK β IKK2. NF- κ B (nuclear factor κ B) is sequestered in the cytoplasm by I κ B family of inhibitory proteins that mask the nuclear localization signal of NF- κ B thereby preventing translocation of NF- κ B to the nucleus. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of I κ B releasing NF- κ B dimers. NF- κ B dimer subsequently translocates to the nucleus and activates target genes. Synthesis of I κ B α is autoregulated. I κ B proteins are phosphorylated by I κ B kinase complex consisting of at least three proteins, IKK1/ α , IKK2/ β , and IKK3/ γ . IKK1/ α and IKK β are phosphorylated by NF- κ B-inducing kinase (NIK) and MAP kinase kinase kinase-1 (MEKK1), respectively. Recent studies have shown that IKK β , not IKK1/ α , is the target proinflammatory stimuli. Targeted disruption of IKK β gene in mice also results in extensive liver damage from apoptosis and death as embryo. Anti-IKK β IKK2 Antibody is ideal for investigators involved in kinase and growth factor research.
Synonyms:	IKKB, Inhibitor of nuclear factor kappa-B kinase subunit beta, I-kappa-B-kinase beta, IKK-B, IKK-beta, I κ BKB, 2.7.11.10, I-kappa-B kinase, IKK2, Nuclear factor NF-kappa-B inhibitor kinase beta, NFKBIKB
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	10A9B6
Format:	IgG1

Target Details

Gene Name:	IKBKB
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	IKK beta Antibody was produced in mice prepared by repeated immunizations with IKK beta, recombinant human protein.
Purity/Specificity:	Anti-IKK β Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-IKK β from Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-IKK β from other sources has not been determined.
Relevant Links:	<ul style="list-style-type: none">• UniProtKB - O14920• NCBI - NP_001177649.1• GeneID - 3551

Application Details

Tested Applications:	FC, IF, IHC, IP, WB
Application Note:	Anti-IKK β IKK2 Antibody is tested for use in WB, Flow, Flow-IC, ICC/IF, IHC, IHC-Fr, and IP. Expect a band approximately 85kDa 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:	2-5 μ g/10 ⁶ cells
WB:	2-5 μ g/mL

Formulation

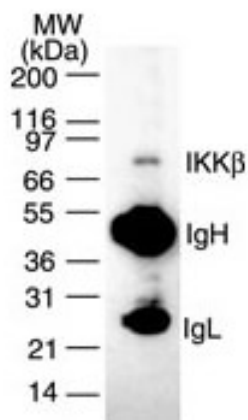
Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide
Stabilizer:	0.05% BSA

Shipping & Handling

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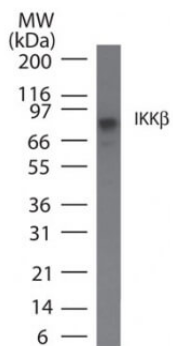
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted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

Images



Western Blot

Immunoprecipitation/Western Blot of Mouse Anti-IKK beta antibody. Lane 1: Daudi cells. Load: 30 µg per lane. Primary antibody: IKKb antibody at 2-5 µg/10⁶ cells 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: 40 kDa for IKK beta. Other band(s): none.



Western Blot

Western Blot of Mouse Anti-IKK beta IKK2 antibody. Lane 1: IKK beta in Daudi cell lysate. Load: 30 µg per lane. Primary antibody: Ikb alpha antibody at 5 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: 40 kDa for Dmnt1. 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.