

Datasheet for 200-301-H83**IKK beta Antibody****Overview**

Description:	Anti-IKK β (MOUSE) Monoclonal Antibody - 200-301-H83
Item No.:	200-301-H83
Size:	100 μ g
Applications:	FC, IF, IHC, IP, WB
Reactivity:	Human, Mouse
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, IKK α , IKK β (IKK β), and IKK γ . IKK 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 IKK 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 NF κ apB and cytokines and growth factors.
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, NFKB1KB
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	10AG2
Format:	IgG1

Target Details

Gene Name:	IKBKB
Reactivity:	Human, Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	IKK beta Antibody was produced in mice prepared by repeated immunizations by a full-length human IKKbeta recombinant protein.
Purity/Specificity:	Anti-IKK β Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with 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:	• UniProtKB - O14920 • NCBI - NP_001177649.1 • GeneID - 3551

Application Details

Tested Applications:	FC, IF, IHC, IP, WB
Application Note:	Anti-IKKb IKK2 Antibody is tested for use in WB, Flow, ICC/IF, IHC, IHC-P, 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.
FC:	0.25-0.5 μ g/10 ⁶ cells
IHC:	1:10 - 1:500
IP:	1:10 - 1:500
WB:	2-4 μ g/mL

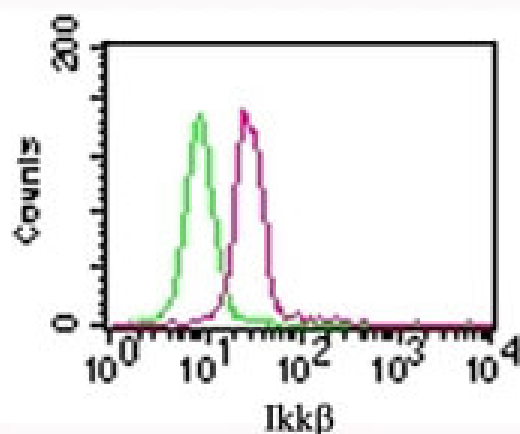
Formulation

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

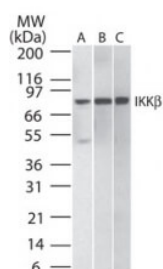
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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-IKK beta antibody. Cells: HEK293 cells. Stimulation: none. Primary Antibody: IKK beta antibody at 0.5 µg/mL (red) and isotype control (green). Secondary Antibody: anti-mouse IgG1 Phycoerythrin conjugated secondary antibody.



Western Blot

Western Blot of Mouse Anti-IKK beta antibody. Lane 1: Human Daudi. Lane 2: HeLa. Lane 3: Mouse NIH 3T3. Load: 30 µg per lane. Primary antibody: IKKb 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: 86.5 kDa for IKK beta. 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.