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Datasheet for 200-301-H84

IKK beta Antibody

Overview

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

Product Details

Background:	Anti-IKKb IKK2 Antibody detects human IKKb IKK2. NF-kB (nuclear factor kB) is sequestered in the cytoplasm by IkB family of inhibitory proteins that mask the nuclear localization signal of NF-kB 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, IKK1/alpha, IKK2/beta, and IKK3/gamma. IKK1/alpha and IKK beta are phosphorylated by NF-kB-inducing kinase (NIK) and MAP kinase kinase kinase-1 (MEKK1), respectively. Recent studies have shown that IKK beta, not IKK1/alpha, is the target proinflammatory stimuli. Targeted disruption of IKK beta gene in mice also results in extensive liver damage from apoptosis and death as embryo. Anti-IKKb 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, IkBKB, 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-IKKß Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-IKKß from Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-IKKß 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, 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 µg/10^6 cells
WB:	2-5 µg/mL

Formulation

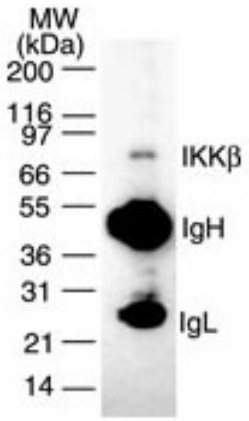
Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

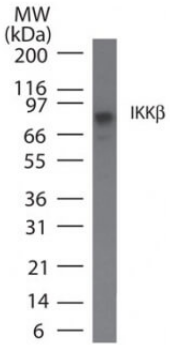
Shipping Condition:	Dry Ice

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
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/10^6 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.

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