

Datasheet for ABIN6655353
anti-IKBKG antibody



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2 Images

Overview

Quantity:	100 µg
Target:	IKBKG
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IKBKG antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	IKK gamma Antibody
Immunogen:	IKK gamma Antibody was produced in mice prepared by repeated immunizations with human IKKgamma (NEMO) protein at full-length.
Clone:	46B844
Isotype:	IgG1 lambda
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with IKKg from Human based on 100 % homology with the immunizing sequence.
Purification:	Anti-IKKg Antibody was purified by Protein G chromatography.

Target Details

Target:	IKBKG
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Target Details

Alternative Name:	IKBKG (IKBKG Products)
Background:	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 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 Ikb 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. Gene Name: IKBKG
Gene ID:	8517
NCBI Accession:	NP_001093326
UniProt:	Q9Y6K9
Pathways:	NF-kappaB Signaling , RTK Signaling , TCR Signaling , TLR Signaling , Fc-epsilon Receptor Signaling Pathway , Activation of Innate immune Response , M Phase , Production of Molecular Mediator of Immune Response , Hepatitis C , Protein targeting to Nucleus , Toll-Like Receptors Cascades , BCR Signaling , Ubiquitin Proteasome Pathway , S100 Proteins

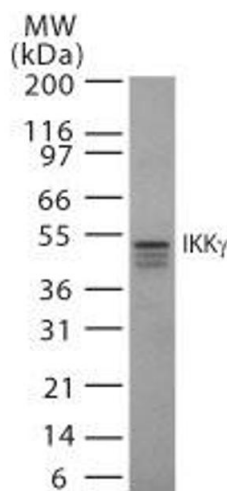
Application Details

Application Notes:	Flow_Cytometry_Dilution: 0.1-0.5/10 ⁶ cells Western_Blot_Dilution: 2 µg/mL
Comment:	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.
Restrictions:	For Research Use only

Handling

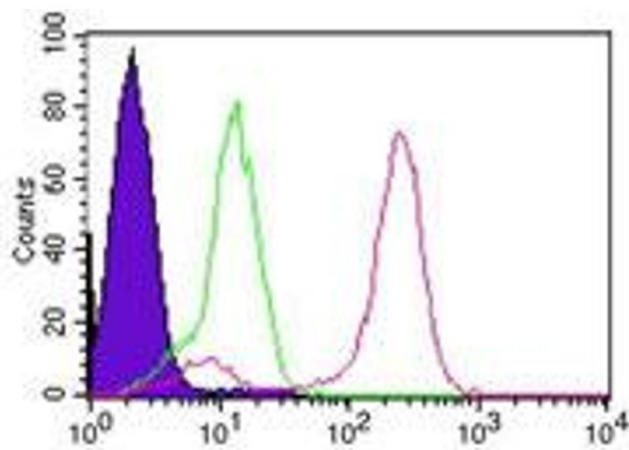
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.05 % BSA Preservative: 0.05 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Western Blotting

Image 1. IKKgamma 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 μ g/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.



Flow Cytometry

Image 2. IKKgamma 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 $\mu\text{g/mL}$ (red) and 0.1 $\mu\text{g/mL}$ isotype control (green). Secondary Antibody: goat anti-mouse IgG FITC.