Datasheet for ABIN5706847

anti-IKBKG antibody

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Overview

Quantity:	100 µg
Target:	IKBKG
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKBKG antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	NEMO/IKK-gamma Antibody
Immunogen:	Immunogen: Anti-NEMO was affinity purified from whole rabbit serum prepared by repeated immunizations with a recombinant protein of human NEMO. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	This antibody detects human NEMO.
Characteristics:	Synonyms: rabbit anti-NEMO antibody, IKBKG Antibody, NF-kappa-B essential modulator, FIP3, NEMO, regulatory subunit of the IKK core complex, I-kappa-B kinase subunit gamma, IKK-gamma, IKKG, IkB kinase-associated protein 1, IKKAP1, rabbit anti-IKK gamma
Purification:	Anti-NEMO is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	IKBKG
Alternative Name:	IKBKG (IKBKG Products)
Background:	Background: Anti-NEMO antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Anti-NEMO antibody detects recombinant and endogenous NEMO. NEMO, the regulatory subunit of the IKK core complex, phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. Its binding to scaffolding polyubiquitin seems to play a role in IKK activation by multiple signaling receptor pathways. Nemo is also considered to be a mediator for TAX activation of NF-kappa-B and may be implicated in NF-kappa-B-mediated protection from cytokine toxicity. NEMO is essential for viral activation of IRF3 and involved in TLR3- and IFIH1-mediated antiviral innate response. The innate antiviral response from NEMO requires 'Lys-27'-linked polyubiquitination. Anti-NEMO is ideal for researchers interested in Immunology and Cancer research.
Gene ID:	8517
NCBI Accession:	NP_003630
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:	Application Note: Anti-NEMO antibody has been tested by western blot and is suitable for immunoprecipitation and ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 48 kDa in size corresponding to endogenous NEMO protein by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500-1:1000 Immunoprecipitation Dilution: 5 µg ELISA Dilution: 1:50,000-1:400,000

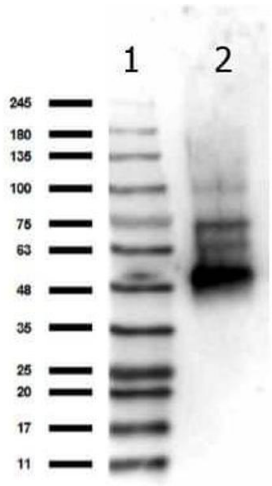
Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (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. Western Blot of Rabbit anti-NEMO antibody. Lane 1: Opal Pre-stained ladder (p/n MB-210-0500). Lane 2: Recombinant NEMO protein. Load: 175 ng per lane. Primary antibody: NEMO antibody at 1:1,000 for overnight at 4 °C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:70,000 for 30 min at RT. Blocking Buffer: MB-070 for 30 min at RT. Predicted MW: ~55 kDa. Observed MW: ~50 kDa for NEMO.