



# IKBKG, IKK-gamma, Inhibitor of kappa B kinase gamma polyclonal antibody

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### Box 1 | Basic Info

Cat. No.	ABP-PAB-10161
Animal ID	RC40104
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_003639
Amount	100 µg

Alternative Name(s): IP2, FIP3, NEMO, FIP-3, Fip3p, IKK-gamma

The I kappa B kinase (IKK) complex, which is composed of the two kinases IKK alpha and IKK beta and the regulatory subunit inhibitor of kappa light polypeptide gene enhancer in B-cells kinase gamma (IKBKG), is important in the cytokine-induced activation of the NF-kappa B pathway. In addition to modulation of IKK activity, the NF-kappa B pathway is also regulated by other processes, including the nucleocytoplasmic shuttling of various components of this pathway and the post-translational modification of factors bound to NFkappa B-dependent promoters. IKBKG shuttles between the cytoplasm and the nucleus to interact with the nuclear co-activator cAMP-responsive element-binding protein-binding protein (CBP). The carboxyl-terminal region of IKBKG is required for full IKK activation.

#### Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

#### Immunogen

N/A

#### Application:

Tested by peptide-specific ELISA (1:1,000).

#### Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

#### References:

1. Huang TT, Wuerzberger-Davis SM, Wu ZH, Miyamoto S: Sequential modification of NEMO/IKKgamma by SUMO-1 and ubiquitin mediates NF-kappaB activation by genotoxic stress. *Cell* 115(5): 565-576 (2003).
2. Verma UN, Yamamoto Y, Prajapati S, Gaynor RB: Nuclear role of I kappa B Kinase-gamma/NF-kappa B essential modulator (IKK gamma/NEMO) in NF-kappa B-dependent gene expression. *J. Biol. Chem.* 279(5): 3509-3515 (2004).
3. Mauro C, Vito P, Mellone S, Pacifico F, Chariot A, Formisano S, Leonardi A: Role of the adaptor protein CIKS in the activation of the IKK complex. *Biochem. Biophys. Res. Commun.* 309(1): 84-90 (2003).
4. Tang ED, Wang CY, Xiong Y, Guan KL: A role for NFkappaB essential modifier/IkappaB kinase-gamma (NEMO/IKKgamma) ubiquitination in the activation of the IkappaB kinase complex by tumor necrosis factor-alpha. *J. Biol. Chem.* 278(39): 37297-37305 (2003).