

**Anti-IKK gamma Picoband Antibody**  
Catalog # ABO12896

**Specification**

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**Anti-IKK gamma Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q9Y6K9</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for NF-kappa-B essential modulator(IKBKG) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-IKK gamma Picoband Antibody - Additional Information**

**Gene ID** 8517

**Other Names**

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, IKBKG, FIP3, NEMO

**Calculated MW**

48198 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cytoplasm . Nucleus . Sumoylated NEMO accumulates in the nucleus in response to genotoxic stress.

**Tissue Specificity**

Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human IKK gamma (207-246aa QSVEAALRMERQAASEEKRKLALQVAYHQLFQEYDNIK), different from the related mouse and rat sequences by three amino acids.

### Cross Reactivity

No cross reactivity with other proteins.

### Storage

**At -20°C for one year. After r<sup>o</sup> Constitution, at 4°C for one month. It<sup>o</sup> Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

## Anti-IKK gamma Picoband Antibody - Protein Information

**Name** IKBKG ([HGNC:5961](#))

**Synonyms** FIP3, NEMO

### Function

Regulatory subunit of the IKK core complex which 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 (PubMed:[14695475](http://www.uniprot.org/citations/14695475)), PubMed:[20724660](http://www.uniprot.org/citations/20724660)), PubMed:[21518757](http://www.uniprot.org/citations/21518757)), PubMed:[9751060](http://www.uniprot.org/citations/9751060)). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed:[16547522](http://www.uniprot.org/citations/16547522)), PubMed:[18287044](http://www.uniprot.org/citations/18287044)), PubMed:[19033441](http://www.uniprot.org/citations/19033441)), PubMed:[19185524](http://www.uniprot.org/citations/19185524)), PubMed:[21606507](http://www.uniprot.org/citations/21606507)), PubMed:[27777308](http://www.uniprot.org/citations/27777308)), PubMed:[33567255](http://www.uniprot.org/citations/33567255)). Can recognize and bind both 'Lys-63'-linked and linear polyubiquitin upon cell stimulation, with a much higher affinity for linear polyubiquitin (PubMed:[16547522](http://www.uniprot.org/citations/16547522)), PubMed:[18287044](http://www.uniprot.org/citations/18287044)), PubMed:[19033441](http://www.uniprot.org/citations/19033441)), PubMed:[19185524](http://www.uniprot.org/citations/19185524)), PubMed:[21606507](http://www.uniprot.org/citations/21606507)), PubMed:[27777308](http://www.uniprot.org/citations/27777308)). Could be implicated in NF-kappa-B-mediated protection from cytokine toxicity. Essential for viral activation of IRF3 (PubMed:[19854139](http://www.uniprot.org/citations/19854139)). Involved in TLR3- and IFIH1-mediated antiviral innate response; this function requires 'Lys- 27'-linked polyubiquitination (PubMed:[20724660](http://www.uniprot.org/citations/20724660)).

### Cellular Location

Cytoplasm. Nucleus Note=Sumoylated NEMO accumulates in the nucleus in response to genotoxic stress.

### Tissue Location

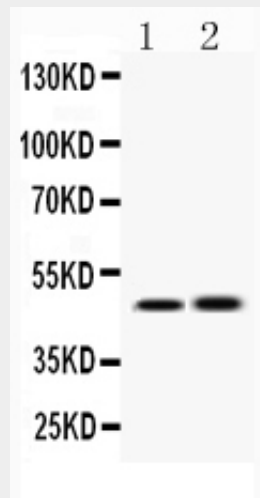
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

## Anti-IKK gamma Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-IKK gamma Picoband Antibody - Images



**Figure 1. Western blot analysis of IKK gamma using anti-IKK gamma antibody (ABO12896).** Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. lane 1: rat cardiac muscle tissue lysates, lane 2: HEPG2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IKK gamma antigen affinity purified polyclonal antibody (Catalog # ABO12896) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for IKK gamma at approximately 48KD. The expected band size for IKK gamma is at 48KD.