

# IKK $\gamma$ Polyclonal Antibody

Catalog # AP70490

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9Y6K9</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	48198

## Additional Information

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<b>Gene ID</b>	8517
<b>Other Names</b>	IKBKG; FIP3; NEMO; NF-kappa-B essential modulator; NEMO; FIP-3; I $\kappa$ B kinase-associated protein 1; IKKAP1; Inhibitor of nuclear factor kappa-B kinase subunit gamma; I-kappa-B kinase subunit gamma; IKK-gamma; IKKG; I $\kappa$ B kinase subunit gamma; NF
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	IKBKG ( <a href="#">HGNC:5961</a> )
<b>Synonyms</b>	FIP3, NEMO
<b>Function</b>	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: <a href="#">14695475</a> , PubMed: <a href="#">20724660</a> , PubMed: <a href="#">21518757</a> , PubMed: <a href="#">9751060</a> ). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed: <a href="#">16547522</a> , PubMed: <a href="#">18287044</a> , PubMed: <a href="#">19033441</a> , PubMed: <a href="#">19185524</a> , PubMed: <a href="#">21606507</a> , PubMed: <a href="#">27777308</a> , PubMed: <a href="#">33567255</a> ). Can recognize and bind both 'Lys-63'-linked and linear polyubiquitin upon cell stimulation, with a much higher affinity for linear polyubiquitin (PubMed: <a href="#">16547522</a> , PubMed: <a href="#">18287044</a> ,

PubMed:[19033441](#), PubMed:[19185524](#), PubMed:[21606507](#),  
PubMed:[27777308](#)). Could be implicated in NF-kappa-B-mediated protection from cytokine toxicity. Essential for viral activation of IRF3 (PubMed:[19854139](#)). Involved in TLR3- and IFIH1-mediated antiviral innate response; this function requires 'Lys- 27'-linked polyubiquitination (PubMed:[20724660](#)).

#### Cellular Location

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

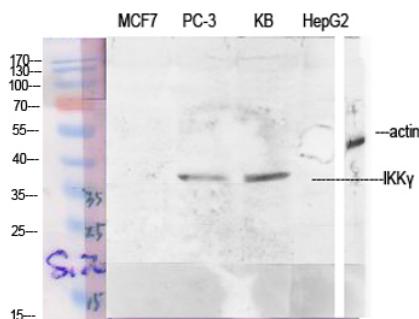
#### Tissue Location

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

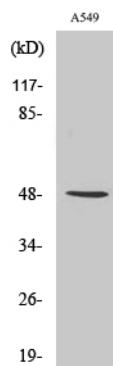
## Background

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. Its binding to scaffolding polyubiquitin seems to play a role in IKK activation by multiple signaling receptor pathways. However, the specific type of polyubiquitin recognized upon cell stimulation (either 'Lys-63'-linked or linear polyubiquitin) and its functional importance is reported conflictingly. Also considered to be a mediator for TAX activation of NF-kappa-B. Could be implicated in NF-kappa-B- mediated protection from cytokine toxicity. Essential for viral activation of IRF3. Involved in TLR3- and IFIH1-mediated antiviral innate response; this function requires 'Lys-27'-linked polyubiquitination.

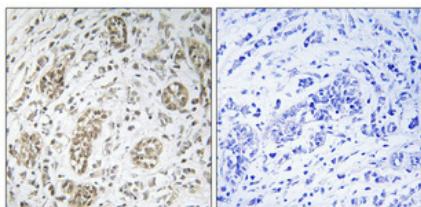
## Images



Western Blot analysis of various cells using IKK $\gamma$  Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of RAW264.7 cells using IKK $\gamma$  Polyclonal Antibody diluted at 1 : 1000



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.