

### **IKKy Polyclonal Antibody**

**Catalog # AP74068** 

### **Specification**

# **IKKy Polyclonal Antibody - Product Information**

Application WB, IHC-P Primary Accession Q9Y6K9

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

# **IKKγ Polyclonal 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)

#### **Dilution**

WB~~WB 1:500-2000,IHC-p 1:500-200, ELISA 1:10000-20000 IHC-P~~N/A

#### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

# **Storage Conditions**

-20°C

## **IKKγ Polyclonal 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:<a href="http://www.uniprot.org/citations/14695475" http://www.uniprot.org/citations/14695475"

target="\_blank">14695475</a>, PubMed:<a href="http://www.uniprot.org/citations/20724660" target="\_blank">20724660</a>, PubMed:<a href="http://www.uniprot.org/citations/21518757" target="\_blank">21518757</a>, PubMed:<a href="http://www.uniprot.org/citations/9751060" target="\_blank">9751060</a>). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed:<a

href="http://www.uniprot.org/citations/16547522" target="\_blank">16547522</a>, PubMed:<a href="http://www.uniprot.org/citations/18287044" target="\_blank">18287044</a>, PubMed:<a href="http://www.uniprot.org/citations/19033441" target="\_blank">19033441</a>, PubMed:<a



href="http://www.uniprot.org/citations/19185524" target="\_blank">19185524</a>, PubMed:<a href="http://www.uniprot.org/citations/21606507" target="\_blank">21606507</a>, PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">217777308</a>, PubMed:<a href="http://www.uniprot.org/citations/33567255" target="\_blank">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="http://www.uniprot.org/citations/16547522" target="\_blank">16547522</a>, PubMed:<a href="http://www.uniprot.org/citations/18287044" target="\_blank">18287044</a>, PubMed:<a href="http://www.uniprot.org/citations/19033441" target="\_blank">19185524</a>, PubMed:<a href="http://www.uniprot.org/citations/19185524" target="\_blank">19185524</a>, PubMed:<a href="http://www.uniprot.org/citations/21606507" target="\_blank">21606507</a>, PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">217777308</a>, PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">277777308</a>, PubMed:<a href="http://www.uniprot.org/citations/27777308" target="\_blank">277777308</a>, PubMed:<a href="http://www.uniprot.org/citations/19854139" target="\_blank">191854139" target="\_blank">191854139</a> (a) NF-kappa-B-mediated protection from cytokine toxicity. Essential for viral activation of IRF3 (PubMed:<a href="http://www.uniprot.org/citations/19854139" target="\_blank">191854139</a>, Involved in TLR3- and IFIH1-mediated antiviral innate response; this function requires 'Lys- 27'-linked polyubiquitination (PubMed:<a href="http://www.uniprot.org/citations/20724660" target="blank">20724660</a>, Dank">20724660</a>, Dank">20724660</a>,

#### **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

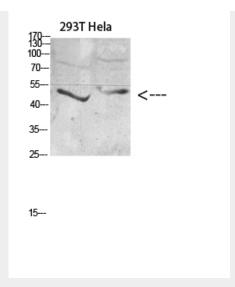
# **IKKy Polyclonal Antibody - Protocols**

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

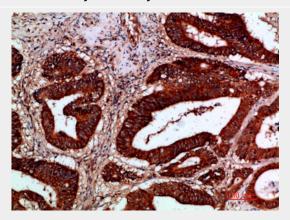
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## IKKγ Polyclonal Antibody - Images

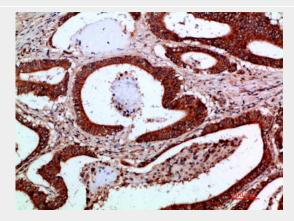




Western blot analysis of mouse-kidney mouse-brain mouse-lung mouse-heart 293T lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000

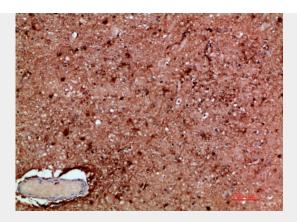


Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:200

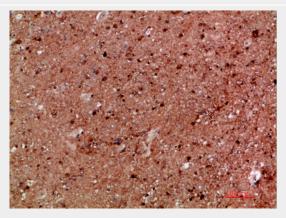


Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:200





Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200

# **ΙΚΚγ Polyclonal Antibody - 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.