

IKK gamma Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8110a

Specification

IKK gamma Antibody - Product Information

Application	WB,E
Primary Accession	O9Y6K9
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1

IKK gamma 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

Target/Specificity

This IKK gamma antibody was raised using purified His-tagged recombinant full length human IKK gamma.

Dilution

WB~~1:500~1000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IKK gamma Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IKK gamma 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](#), PubMed:[20724660](#), PubMed:[21518757](#), PubMed:[9751060](#)). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed:[16547522](#), PubMed:[18287044](#), PubMed:[19033441](#), PubMed:[19185524](#), PubMed:[21606507](#), PubMed:[27777308](#), PubMed:[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](#), PubMed:[18287044](#), 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

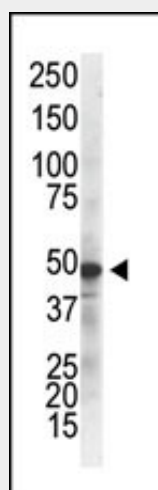
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

IKK gamma 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](#)

IKK gamma Antibody - Images



The anti-IKKgamma Mab (Cat. #AM8110a) is used in Western blot to detect IKKgamma in ZR75-1 cell lysate.

IKK gamma Antibody - Background

This gene encodes the regulatory subunit of the inhibitor of kappaB kinase (IKK) complex, which activates NF-kappaB resulting in activation of genes involved in inflammation, immunity, cell survival, and other pathways. Mutations in this gene result in incontinentia pigmenti, hypohidrotic ectodermal dysplasia, and several other types of immunodeficiencies. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene highly similar to this locus is located in an adjacent region of the X chromosome.

IKK gamma Antibody - References

Immune deficiency caused by impaired expression of nuclear factor-kappaB essential modifier (NEMO) because of a mutation in the 5' untranslated region of the NEMO gene. Mooster JL, et al. J Allergy Clin Immunol, 2010 Jul. PMID 20542322.

NEMO gene mutations in Chinese patients with incontinentia pigmenti. Hsiao PF, et al. J Formos Med Assoc, 2010 Mar. PMID 20434027.

The LCR at the IKBKG locus is prone to recombine. Fusco F, et al. Am J Hum Genet, 2010 Apr 9. PMID 20380930.

IKK{gamma} protein is a target of BAG3 regulatory activity in human tumor growth. Ammirante M, et al. Proc Natl Acad Sci U S A, 2010 Apr 20. PMID 20368414.

Activation of noncanonical NF-kappaB signaling by the oncoprotein Tio. de Jong SJ, et al. J Biol Chem, 2010 May 28. PMID 20353939.

IKK gamma Antibody - Citations

- [Iron-mediated H2O2 production as a mechanism for cell type-specific inhibition of tumor necrosis factor alpha-induced but not interleukin-1beta-induced IkappaB kinase complex/nuclear factor-kappaB activation.](#)