

IKBKG / NEMO / IKK Gamma Antibody (aa51-100)
Rabbit Polyclonal Antibody
Catalog # ALS16964**Specification****IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - Product Information**

Application	IHC, IF, WB
Primary Accession	O9Y6K9
Other Accession	8517
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	48198

IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - Additional Information**Gene ID** 8517**Other Names**

IKBKG, AMCBX1, FIP3, Fip3p, IkappaB kinase gamma, IKKgamma, IKK-gamma, NEMO, NF-kappa-B essential modifier, I-kappa-B kinase gamma-subunit, I-kappa-B kinase subunit gamma, Ikb kinase gamma subunit, IKKAP1, Incontinentia pigmenti, IP2, IPD2, NF-kappa- ...

Target/Specificity

Detects endogenous levels of total IKK-gamma protein.

Reconstitution & Storage

PBS (without Mg²⁺, Ca²⁺), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C for up to one year.

Precautions

IKBKG / NEMO / IKK Gamma Antibody (aa51-100) is for research use only and not for use in diagnostic or therapeutic procedures.

IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - 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: <http://www.uniprot.org/citations/9751060> target="_blank">9751060, PubMed: <http://www.uniprot.org/citations/14695475> target="_blank">14695475, PubMed: <http://www.uniprot.org/citations/20724660> target="_blank">20724660, PubMed: <http://www.uniprot.org/citations/21518757>

target="_blank">21518757). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed:16547522, PubMed:18287044, PubMed:19033441, PubMed:21606507, PubMed:27777308, PubMed:19185524, 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:27777308, PubMed:19033441, PubMed:21606507, PubMed:19185524). 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

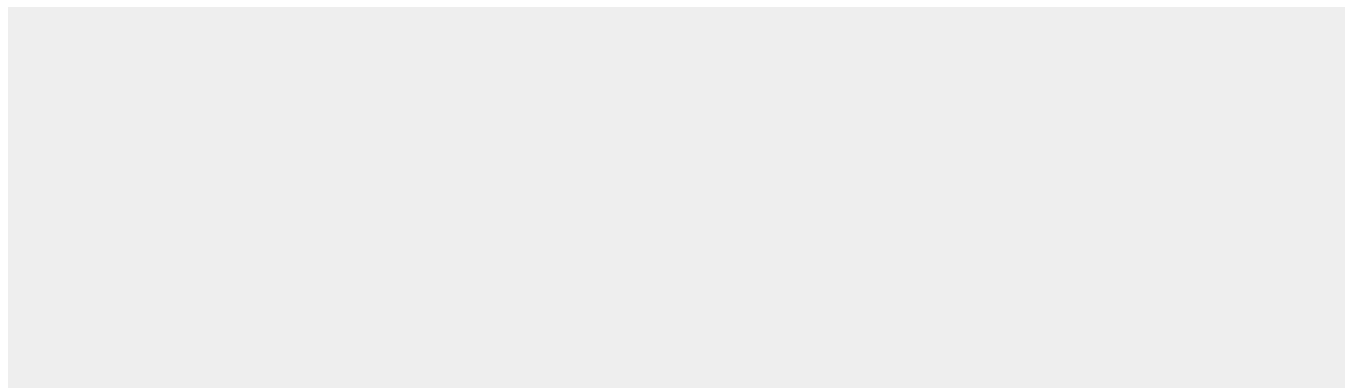
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

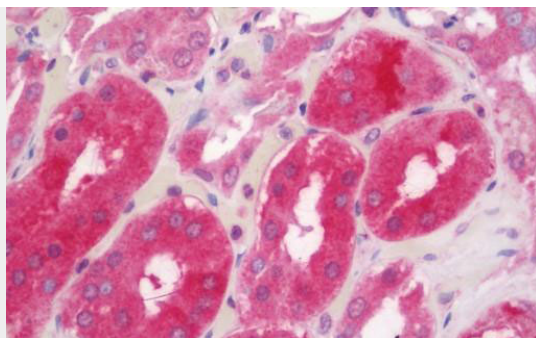
IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - Protocols

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

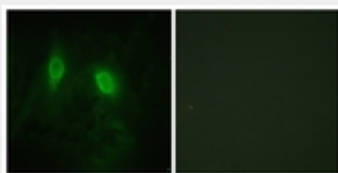
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - Images

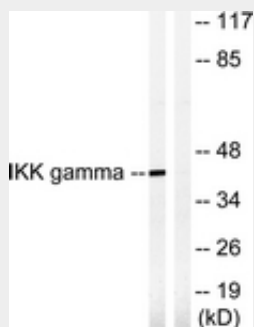




Anti-IKBKG / NEMO / IKK Gamma antibody IHC staining of human kidney.



Immunofluorescence of HeLa cells, using IKK-gamma (Ab-85) Antibody.



Western blot of extracts from HepG2 cells, treated with Anisomycin 0.5 uM 5h, using IKK-gamma...

IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - 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.

IKBKG / NEMO / IKK Gamma Antibody (aa51-100) - References

- Li Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 96:1042-1047(1999).
- Jin D.-Y.,et al.J. Biomed. Sci. 6:115-120(1999).
- Rothwarf D.M.,et al.Nature 395:297-300(1998).
- Smahi A.,et al.Nature 405:466-472(2000).
- Ye Z.,et al.Biochem. Biophys. Res. Commun. 275:223-227(2000).