

IKBKG / NEMO / IKK Gamma Antibody (clone 46B844)
Mouse Monoclonal Antibody
Catalog # ALS13671**Specification****IKBKG / NEMO / IKK Gamma Antibody (clone 46B844) - Product Information**

Application	WB, IHC
Primary Accession	O9Y6K9
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	48kDa KDa

IKBKG / NEMO / IKK Gamma Antibody (clone 46B844) - 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

A His-tagged full-length human IKK3/IKKg protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

IKBKG / NEMO / IKK Gamma Antibody (clone 46B844) is for research use only and not for use in diagnostic or therapeutic procedures.

IKBKG / NEMO / IKK Gamma Antibody (clone 46B844) - 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: [16547522](http://www.uniprot.org/citations/16547522)).

[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

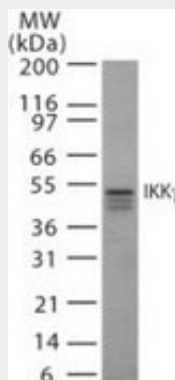
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

IKBK γ / NEMO / IKK Gamma Antibody (clone 46B844) - Protocols

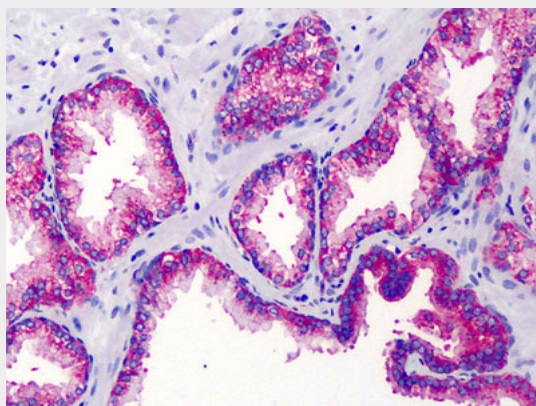
Provided below are standard protocols that you may find useful for product applications.

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

IKBK γ / NEMO / IKK Gamma Antibody (clone 46B844) - Images



Western blot of 30 ug of total cell lysate from Jurkat cells with antibody at 2 ug/ml dilution.



Anti-IKBKG / IKK Gamma antibody IHC of human prostate.

IKBKG / NEMO / IKK Gamma Antibody (clone 46B844) - 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 (clone 46B844) - 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).