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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	Q9Y6K9
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:9751060, PubMed:14695475, PubMed:20724660, PubMed:21518757). Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways (PubMed:16547522, PubMed:<a

href="http://www.uniprot.org/citations/18287044" target="_blank">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.

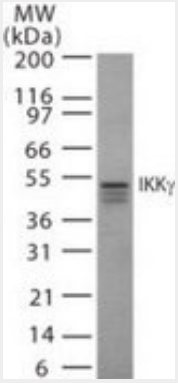
Tissue Location
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

IKBKG / NEMO / IKK Gamma Antibody (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 Cytomety
- Cell Culture

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



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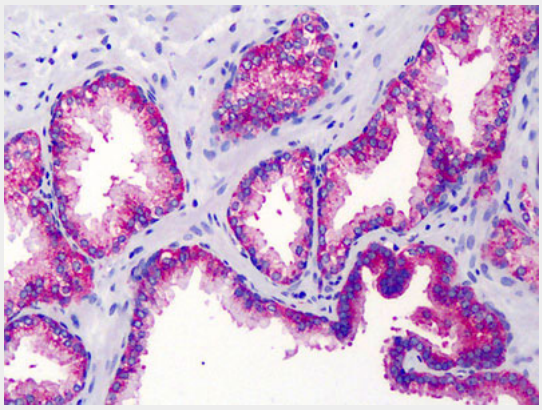
Western blot of 30 ug of total cell lysate from Jurkat cells with antibody at 2 ug/ml dilution.



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

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