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IKBKG Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18224a

Specification

IKBKG Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9Y6K9

IKBKG Antibody (N-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IKBKG Antibody (N-term) Blocking Peptide - 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:18287044, PubMed:19033441, PubMed:21606507, PubMed:27777308, PubMed:19185524, PubMed:<a

href="http://www.uniprot.org/citations/33567255" target="_blank">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 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

IKBKG Antibody (N-term) Blocking Peptide - Images

IKBKG Antibody (N-term) Blocking Peptide - Background

This gene encodes the regulatory subunit of the inhibitorof kappaB kinase (IKK) complex, which activates NF-kappaB resultingin activation of genes involved in inflammation, immunity, cellsurvival, and other pathways. Mutations in this gene result inincontinentia pigmenti, hypohidrotic ectodermal dysplasia, andseveral other types of immunodeficiencies. Multiple transcriptvariants encoding different isoforms have been found for this gene.A pseudogene highly similar to this locus is located in an adjacentregion of the X chromosome.

IKBKG Antibody (N-term) Blocking Peptide - References

Boehm, D., et al. Proc. Natl. Acad. Sci. U.S.A. 107(42):18103-18108(2010)Wu, Z.H., et al. Mol. Cell 40(1):75-86(2010)Arimoto, K., et al. Proc. Natl. Acad. Sci. U.S.A. 107(36):15856-15861(2010)Gautheron, J., et al. Hum. Mol. Genet. 19(16):3138-3149(2010)Mooster, J.L., et al. J. Allergy Clin. Immunol. 126(1):127-132(2010)