

KD-Validated Anti-IKBKG Mouse Monoclonal Antibody

Mouse monoclonal Antibody

Catalog # AGI2192

Product Information

Application	WB
Primary Accession	Q9Y6K9
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB14145
Calculated MW	48198
Gene Name	IKBKG
Aliases	IKBKG; Inhibitor Of Nuclear Factor Kappa B Kinase Regulatory Subunit Gamma; IKK-Gamma; IKKAP1; FIP-3; NEMO; FIP3; IKKG; IkB Kinase-Associated Protein 1; NF-Kappa-B Essential Modulator; I-Kappa-B Kinase Subunit Gamma; IkB Kinase Subunit Gamma; ZC2HC9; Fip3p; Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B-Cells, Kinase Gamma; Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Gamma; 14.7K (Adenovirus E3 Protein) Interacting Protein 3; NF-Kappa-B Essential Modifier; Incontinentia Pigmenti; IP1; IP2; Inhibitor Of Nuclear Factor Kappa-B Kinase Subunit Gamma; AMCBX1; EDAID1; IMD33; SAIDX ; IPD2; IP
Immunogen	Recombinant protein of human IKBKG

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 (HGNC:5961), FIP3, NEMO

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.