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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

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