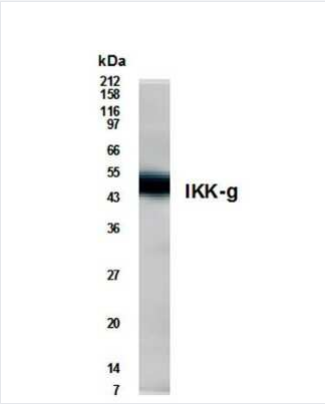
IKK Gamma (IKBKG) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKK gamma (IKBKG), Polyclonal Antibody
Full Product Name	Anti-IKK gamma (N-terminal) Antibody
Product Gene Name	anti-IKBKG antibody
Product Synonym Gene Name	IKKgamma
Product Synonym Names	IKBKG; IkB kinase associated protein 1; NEMO; IkB kinase subunit gamma; AMCBX1; FIP3; Ikbkg; IKKAP1; IKKg; Inhibitor of kappa light polypeptide gene enhancer in B cells; kinase gamma; NF kappa B essential modifier; IP; IKK gamma
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; Antigen Affinity Purified; PBS + 0.02% NaN3
Specificity	Reacts with the N-terminal region of human IKK gamma protein. Recognizes both human isoforms.
Preparation and Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage) upon arrival and stored long term at -20 degree C or -80 degree C, while keeping a working aliquot stored at 4 degree C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year. After date of receipt, stable for at least 1 year at -20 degree C.
Molecular Weight	48,198 Da
Chromosome Location	Chromosome: X; NC_000023.10 (153770459..153793261). Location: Xq28
OMIM	300248
3D Structure	ModBase 3D Structure for Q9Y6K9
Immunogen Species	Human
Immunogen	Synthetic peptide corresponding to amino acids from the N-terminal region of human IKK gamma protein
Country of Origin	United States
Product Categories/Family for anti-IKBKG antibody	Primary Antibody
Applications Tested/Suitable for anti-IKBKG antibody	Western Blot (WB)
Application Notes for anti-IKBKG antibody	WB: 1:500-1:1000
Related Product Information for anti-IKBKG antibody	IKK gamma rabbit polyclonal primary antibody from the lab is produced in-house. It detects human IKK gamma and is antigen affinity purified. It is great for use in WB. Pro-inflammatory cytokines activate the transcription factor NF-kappaB by stimulating the activity of a protein kinase that phosphorylates IkappaB, an inhibitor of NF-kappaB, at sites that trigger its ubiquitination and degradation. A large, cytokine-responsive IkappaB kinase (IKK) complex contains 2 subunits, IKK-alpha and IKK-beta, which are protein kinases whose function is needed for NF-kappaB activation by pro-inflammatory stimuli. IKK is composed of similar amounts of IKK-alpha, IKK-beta, which are differentially processed forms of a third subunit, IKK-gamma. IKK-gamma interacts preferentially with IKK-beta and is required for the activation of the IKK complex.

Other Notes	Small volumes of anti-IKBKG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IKBKG purchase	MBS500128 is an antibody targeting IKBKG. Also known as Anti-IKK gamma (N-terminal) Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IKBKG antibody
Western Blot of Interleukin 1 stimulated 293 cell lysate showing specific immunolabeling of IKK-gamma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IKBKG. It may not necessarily be applicable to this product.

NCBI GI #	223671870
NCBI GeneID	8517
NCBI Accession #	NP_001093326.2
UniProt Primary Accession #	Q9Y6K9
UniProt Secondary Accession #	Q7LBY6; Q7Z7F1
UniProt Related Accession #	Q9Y6K9
GenBank Nucleotide #	NM_001099856.2
NCBI Official Full Name	NF-kappa-B essential modulator isoform b
NCBI Official Synonym Full Names	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
NCBI Official Symbol	IKBKG
NCBI Official Synonym Symbols	IP; IP1; IP2; FIP3; IPD2; NEMO; FIP-3; Fip3p; AMCBX1; ZC2HC9; IKK-gamma
UniProt Protein Name	NF-kappa-B essential modulator
UniProt Synonym Protein Names	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
UniProt Gene Name	IKBKG
UniProt Synonym Gene Names	FIP3; NEMO; NEMO; IKKAP1; I-kappa-B kinase subunit gamma; IKK-gamma; IKKG
UniProt Entry Name	NEMO_HUMAN
NCBI Protein Information	NF-kappa-B essential modulator; IKKG; IKKAP1; incontinentia pigmenti; IkB kinase gamma subunit; ikB kinase subunit gamma; NFkappaB essential modulator; NF-kappa-B essential modifier; I-kappa-B kinase subunit gamma; ikB kinase-associated protein 1; inhibit

NCBI Summary for IKBKG	This gene encodes the regulatory subunit of the inhibitor of kappaB kinase (IKK) complex, which activates NF-kappaB resulting in activation of genes involved in inflammation, immunity, cell survival, and other pathways. Mutations in this gene result in incontinentia pigmenti, hypohidrotic ectodermal dysplasia, and several other types of immunodeficiencies. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene highly similar to this locus is located in an adjacent region of the X chromosome. [provided by RefSeq, Aug 2011]
UniProt Comments for IKBKG	IKKG: a regulatory subunit of the IKK-signalosome complex. Interacts preferentially with IKK-beta but also able to interact with IKK-alpha, IKAP, TAX, RIP and MAP3K14/NIK. Defects are the cause of familial incontinentia pigmenti type II (IP2). Protein type: Protein kinase, regulatory subunit; Adaptor/scaffold Chromosomal Location of Human Ortholog: Xq28 Cellular Component: spindle pole; cytoplasm; intracellular; IkappaB kinase complex; nucleus; cytosol; ubiquitin ligase complex Molecular Function: protein domain specific binding; signal transducer activity; peroxisome proliferator activated receptor binding; protein binding; protein homodimerization activity; protein heterodimerization activity; metal ion binding; ubiquitin protein ligase binding Biological Process: I-kappaB kinase/NF-kappaB cascade; establishment of vesicle localization; viral reproduction; activation of MAPK activity; apoptosis; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; T cell receptor signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; B cell homeostasis; positive regulation of interferon type I production; JNK cascade; inflammatory response; toll-like receptor 4 signaling pathway; positive regulation of I-kappaB kinase/NF-kappaB cascade; transcription, DNA-dependent; MyD88-independent toll-like receptor signaling pathway; response to virus; activation of NF-kappaB-inducing kinase; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; immune response; toll-like receptor 9 signaling pathway; response to DNA damage stimulus Disease: Invasive Pneumococcal Disease, Recurrent Isolated, 2; Ectodermal Dysplasia, Hypohidrotic, With Immune Deficiency; Immunodeficiency Without Anhidrotic Ectodermal Dysplasia; Immunodeficiency 33; Incontinentia Pigmenti; Ectodermal Dysplasia, Anhidrotic, With Immunodeficiency, Osteopetrosis, And Lymphedema
Research Articles on IKBKG	**1.** This study thus demonstrates that the Y374 or S377 residue located at the C-terminal proline-rich domain of human IKKgamma/NEMO undergoes phosphorylation upon TNF-alpha treatment or human herpesvirus 8 KvFLIP expression, respectively.
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