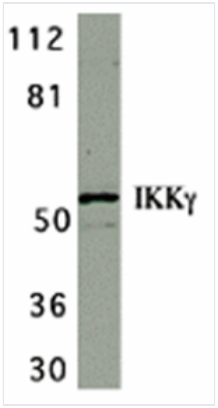
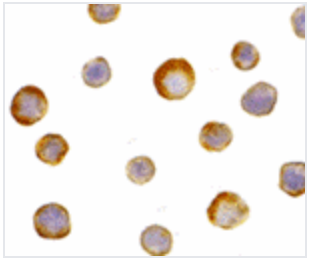
IKK gamma Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKK gamma, Polyclonal Antibody
Full Product Name	IKK gamma Antibody
Product Gene Name	anti-IKK gamma antibody
Product Synonym Names	IKKg, NEMO, NEMO, FIP3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Specificity	IKK gamma has no cross response to IKK alpha or IKK beta.
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	36,953 Da
OMIM	300248
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to amino acids 400 to 416 of human IKK gamma, which are identical to those of mouse homologue.
Target Name	IKK gamma
Product Categories/Family for anti-IKK gamma antibody	Total protein Ab
Applications Tested/Suitable for anti-IKK gamma antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC)
Related Product Information for anti-IKK gamma antibody	Nuclear factor kappa B (NF-kB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-kB mediates the expression of a great variety of genes in response to extracellular stimuli. NF-kB is associated with IkB proteins in the cell cytoplasm, which inhibit NF-kB activity. The IkB kinase (IKKa and IKKb) phosphorylates IkB and mediates NF-kB activation. A novel molecule in the IKK complex was recently identified and termed IKKg/NEMO/FIP3/IKKAP1. IKKg interacts with IKKb and is required for the activation of IKK complex and NF-kB by LPS, PMA, TNF, and IL-1 stimulation. FIP3 was also shown to bind to RIP and NIK and to mediate TNF-induced NF-kB activation.
Other Notes	Small volumes of anti-IKK gamma 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 IKK gamma purchase	MBS9403286 is an antibody targeting IKK gamma. Also known as IKK gamma Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-IKK gamma antibody
Western blot analysis of IKK gamma in HeLa whole cell lysate with IKK gamma antibody at 1 ug/mL.



Immunocytochemistry (ICC) of anti-IKK gamma antibody
Immunocytochemistry of IKK gamma in HeLa cells with IKK gamma antibody at 5 ug/mL.

ADDITIONAL DETAILS

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

NCBI GI #	3641279
NCBI GeneID	8517
NCBI Accession #	AF074382
UniProt Secondary Accession #	Q7LBY6; Q7Z7F1
UniProt Related Accession #	Q9Y6K9
NCBI Official Full Name	Homo sapiens IkB kinase gamma subunit (IKK-gamma) mRNA, complete cds
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; IMD33; 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; IkB kinase subunit gamma
UniProt Entry Name	NEMO_HUMAN
NCBI Protein Information	NF-kappa-B essential modulator
NCBI Summary for IKK gamma	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 IKK gamma	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; cytosol; nucleus; ubiquitin ligase complex Molecular Function: protein domain specific binding; peroxisome proliferator activated receptor binding; protein binding; signal transducer activity; 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; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; 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 IKK gamma	**1.** unanchored polyubiquitin has a role in regulation by inducing NEMO conformational change by an allosteric mechanism
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