IKK-gamma Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKK-gamma, Polyclonal Antibody
Full Product Name	IKK-gamma (Phospho-Ser376) Antibody
Product Gene Name	anti-IKK-gamma antibody
Product Synonym Names	FIP3; IKBKG; IKKAP1; IKKG; NF-kappaB
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Specificity	The antibody detects endogenous levels of IKK-gamma only when phosphorylated at serine 376.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
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	Peptide sequence around phosphorylation site of Serine 376 (Y-L-S (p)-S-P) derived from Human IKK-gamma.
Product Categories/Family for anti-IKK-gamma antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-IKK-gamma antibody	Immunohistochemistry (IHC)
Application Notes for anti-IKK-gamma antibody	IHC: 1:50~1:100
Related Product Information for anti-IKK-gamma antibody	Familial incontinentia pigmenti (IP) is a genodermatosis that segregates as an X-linked dominant disorder and is usually lethal prenatally in males. In affected females it causes highly variable abnormalities of the skin, hair, nails, teeth, eyes, and central nervous system. The prominent skin signs occur in 4 classic cutaneous stages: perinatal inflammatory vesicles, verrucous patches, a distinctive pattern of hyperpigmentation, and dermal scarring. Cells expressing the mutated X chromosome are eliminated selectively around the time of birth, so females with IP exhibit extremely skewed X-inactivation.
Product References and Citations for anti-IKK-gamma antibody	Li Y., Proc. Natl. Acad. Sci. U.S.A. 96:1042-1047 (1999).Jin D.-Y., J. Biomed. Sci. 6:115-120 (1999).Rothwarf D.M., Nature 395:297-300 (1998)

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	MBS8585087 is an antibody targeting IKK-gamma. Also known as IKK-gamma (Phospho-Ser376) Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IKK-gamma. 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 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; 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 IKK-gamma	**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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