

Recombinant Human Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B-cells, Kinase Gamma, GST-tagged

Cat. No. IKBKG-1028H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human IKBKG was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	IKBKG is a serine/threonine protein kinase that phosphorylates the I-kappa-B protein which is an inhibitor of the transcription factor NF-kappa-B complex. Phosphorylation of I-kappa-B protein triggers the degradation of the inhibitor via the ubiquitination pathway, thereby activating NF-kappa-B complex. IKBKG forms dimers and trimers and interacts preferentially with IKKbeta but not IKKalpha. IKBKG associates with activated ATM after the induction of DNA double-strand breaks. ATM phosphorylates serine-85 of IKBKG to promote its ubiquitin-dependent nuclear export.
Applications	Western Blot
Molecular Weight	73 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0,25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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Purity	> 95 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Activated TLR4 signalling; Acute myeloid leukemia; Adaptive Immunity Signaling; Adipocytokine signaling pathway; Apoptosis; Epithelial cell signaling in Helicobacter pylori infection; FAS (CD95) signaling pathway; HTLV-I infection; IRAK1 recruits IKK complex; MAPK signaling pathway; NLR proteins; Pancreatic cancer; p75(NTR)-mediated signaling

GENE INFORMATION

Gene Name	IKBKG inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma [Homo sapiens]
Official Symbol	IKBKG
Synonyms	IKBKG; inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma; IP; IP1; IP2; FIP3; IPD2; NEMO; FIP-3; Fip3p; AMCBX1; IKK-gamma; NF-kappa-B essential modulator; IKKG; IKKAP1; OTTHUMP00000026026; OTTHUMP00000026027; OTTHUMP00000026028; OTTHUMP00000026029; OTTHUMP00000026030; OTTHUMP00000196183; OTTHUMP00000196183; OTTHUMP00000196186; OTTHUMP00000207079; OTTHUMP00000212188; incontinentia pigmenti; IκB kinase gamma subunit; IκB kinase subunit gamma; NFκappaB essential modulator; NF-kappa-B essential modifier; I-kappa-B kinase

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	subunit gamma; ikB kinase-associated protein 1; inhibitor of nuclear factor kappa-B kinase subunit gamma
Gene ID	8517
mRNA Refseq	NM_003639
Protein Refseq	NP_003630
MIM	300248
UniProt ID	Q9Y6K9
Chromosome Location	Xq28
Function	metal ion binding; protein binding; protein domain specific binding; signal transducer activity
Rendering based on PDB 2JVX.	