

KD-Validated Anti-IKBKG Mouse Monoclonal Antibody

Mouse monoclonal Antibody

Catalog # AGI2192

Specification

KD-Validated Anti-IKBKG Mouse Monoclonal Antibody - Product Information

Application	WB
Primary Accession	Q9Y6K9
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 48 kDa, observed, 48 kDa kDa
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

KD-Validated Anti-IKBKG Mouse Monoclonal Antibody - 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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=5961), FIP3, NEMO

KD-Validated Anti-IKBKG Mouse Monoclonal Antibody - 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

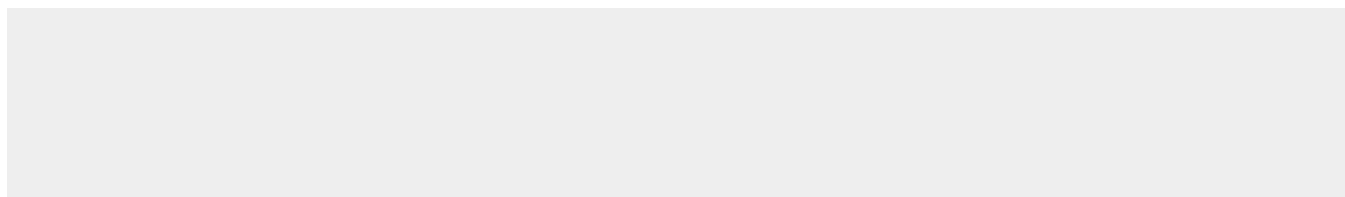
Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

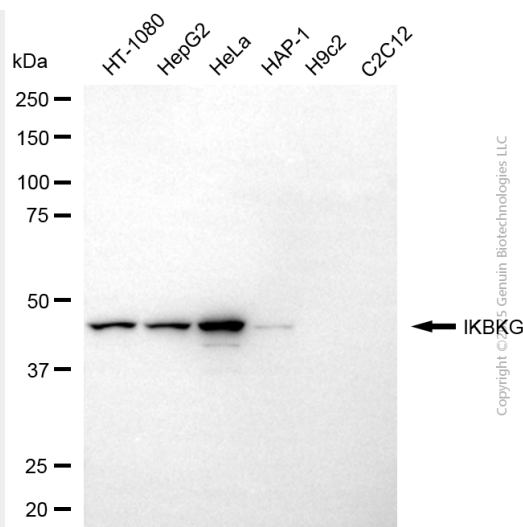
KD-Validated Anti-IBKKG Mouse Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

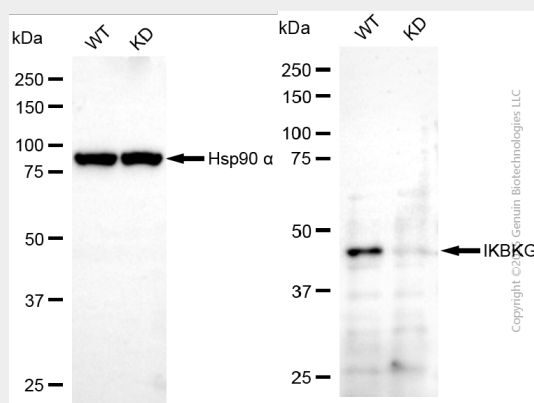
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-IBKKG Mouse Monoclonal Antibody - Images





Western blotting analysis using anti-*IKBKG* antibody (Cat#AGI2192). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-*IKBKG* antibody (Cat#AGI2192, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-*IKBKG* antibody (Cat#AGI2192). *IKBKG* expression in wild-type (WT) and *IKBKG* knockdown (KD) HSHC cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-*IKBKG* antibody (Cat#AGI2192, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.