

DATASHEET

IKK gamma Rabbit Monoclonal Antibody(ARA783)

CAT. NO. ARA6570

KEY FEATURES

Target	IKK gamma	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB,IHC,IF/ICC,FC,IP	Conjugation	Unconjugated
Storage	at-20°C		

BACKGROUND

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 . Its binding to scaffolding polyubiquitin plays a key role in IKK activation by multiple signaling receptor pathways . Can recognize and bind both 'Lys-63'-linked and linear polyubiquitin upon cell stimulation, with a much higher affinity for linear polyubiquitin . Could be implicated in NF-kappa-B-mediated protection from cytokine toxicity. Essential for viral activation of IRF3 . Involved in TLR3- and IFIH1-mediated antiviral innate response; this function requires 'Lys-27'-linked polyubiquitination .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:2000-1:5000
IHC	1:100-1:200
IF/ICC	1:50-1:200
FC	1:200-1:1000
IP	1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit Monoclonal Antibody to IKK gamma
Antibody Type	Primary antibody
Predicted MW	48kDa
Immunogen	A synthetic peptide corresponding to the N-term of IKK gamma was used as an immunogen.
Purification	ProA affinity purified IgG
Form / Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.58%.
Alternative Names	FIP3; NEMO; 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
Gene Symbol	IKBKG
Entrez Gene	8517(Human)
Swissprot ID	Q9Y6K9

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

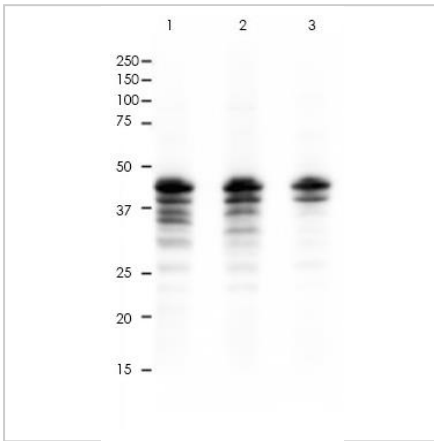
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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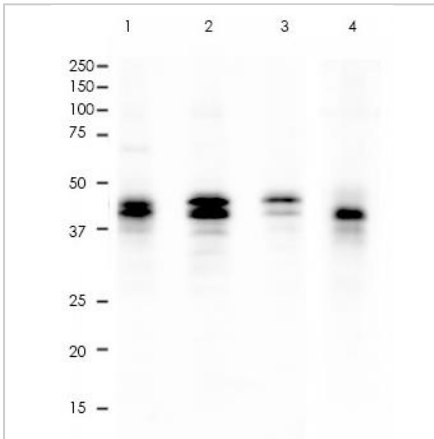
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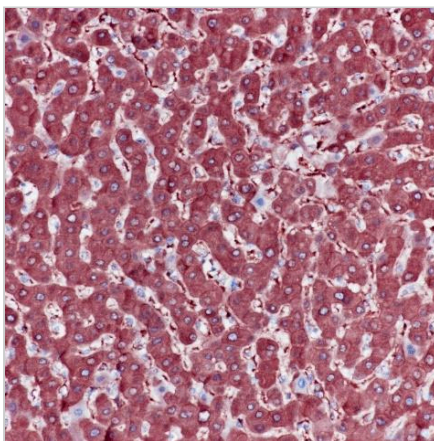
DATA



All lanes: Anti-IKK gamma antibody at 1:2,000 dilution Predicted MW: 48 kDa Observed MW: 37-48 kDa Lane 1: Jurkat Lane 2: K562 Lane 3: HeLa Lane 4: NIH-3T3 Lysate at 10 µg per lane 2nd Ab: GAR HRP(H+L) 1:5,000 Exposure: 10s This antibody is predicted to recognize 3 isoforms of IKK gamma at 37kDa, 56kDa and 48kDa, respectively.



All lanes: Anti-IKK gamma antibody at 1:2,000 dilution Predicted MW: 48 kDa Observed MW: 37-48 kDa Lane 1: PC-12 Lane 2: PC-3 Lane 3: HepG2 Lane 4: Mu kidney Lysate at 10 µg per lane 2nd Ab: GAR HRP(H+L) 1:5,000 Exposure: 50s This antibody is predicted to recognize 3 isoforms of IKK gamma at 37kDa, 56kDa and 48kDa, respectively.



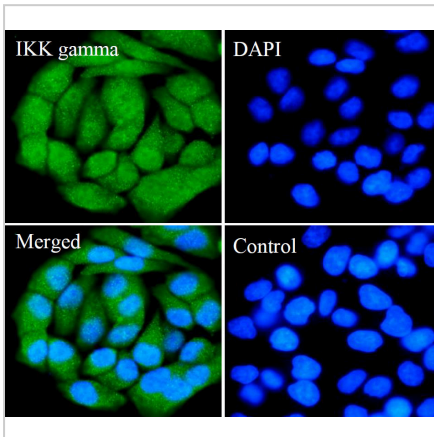
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of liver tissue labelling IKK gamma with ARA783 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

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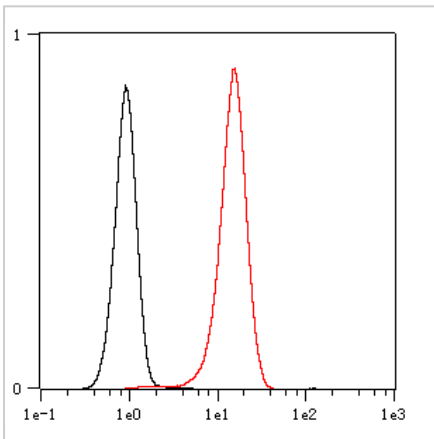
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ARA783 staining IKK gamma in HeLa cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:50) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain. Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing HeLa cells stained with ARA783 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (ARA783, 1:1,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com