Order: 0571-88177686
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Support: support@biolynx.cn

Rev.: 2018/12/5

IKK gamma
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX00070
Clone# RR674

Predicted Molecular Wt: 48kDa
Species Cross-reactivity: Human Mouse Rat
Species cross-reactivity determined by WB
Applications: WB IHC-P IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q9Y6K9

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 seems to play a role in IKK activation by multiple signaling receptor pathways. However, the specific type of polyubiquitin recognized upon cell stimulation (either 'Lys-63'-linked or linear polyubiquitin) and its functional importance is reported conflictingly.

Immunogen:

A synthetic peptide corresponding to the N-term of IKK gamma was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

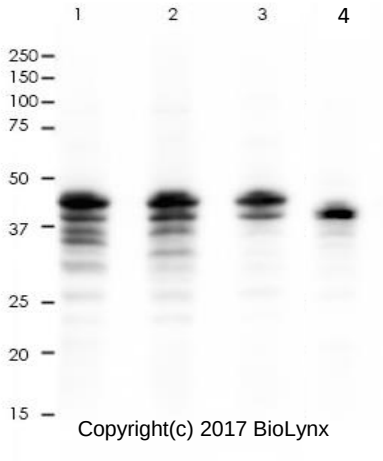
-20°C

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

WB:	1:2,000 - 1:5,000
IHC-P:	1:100 - 1:200
IF/ICC:	1:50 - 1:200
FC:	1:200 - 1:1,000
IP:	1:50

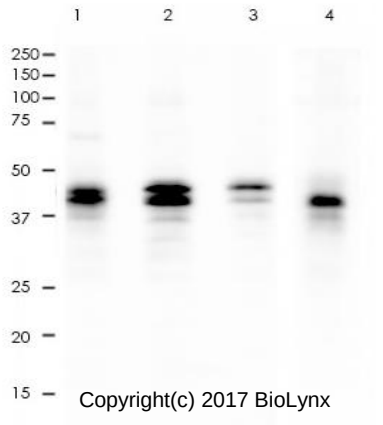


All lanes: Anti-IKK gamma antibody at 1:2,000 dilution
Predicted MW: 48 kDa
Observed MW: 37-48 kDa

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.

Background References:

1. Spencer NY et al. Anal Biochem 494:55-67 (2016).

2. Kuo HP et al. Cancer Cell 24:423-37 (2013).

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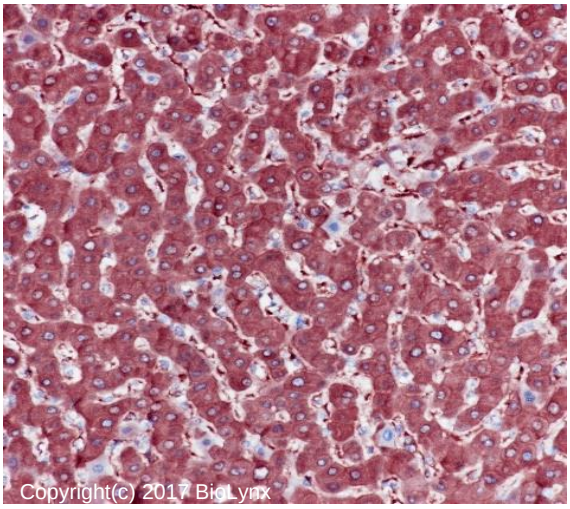
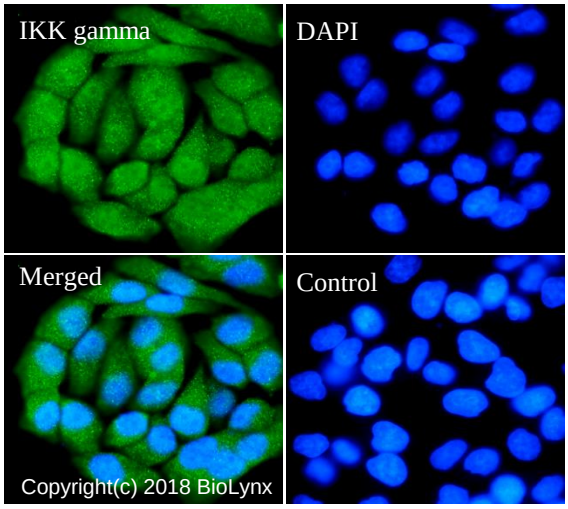
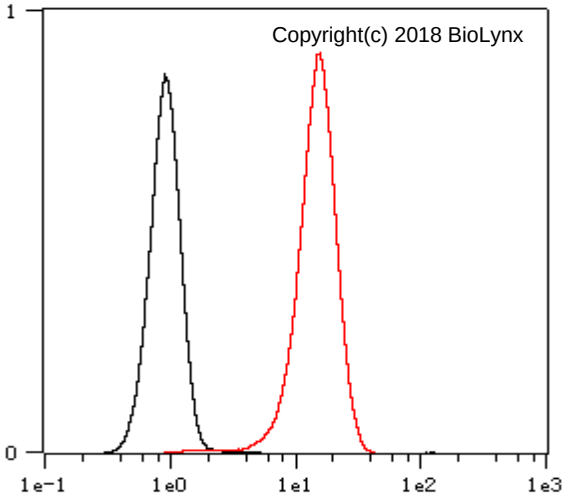


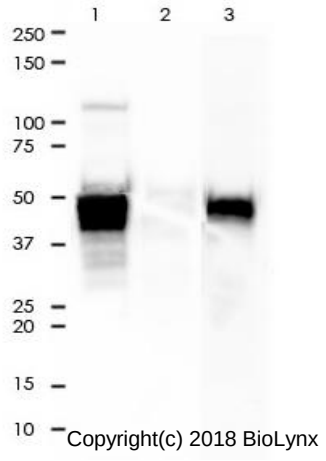
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of liver tissue labelling IKK gamma with RR674 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



RR674 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 RR674 (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 (RR674, 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.



IKK gamma was immunoprecipitated from 0.4mg of Hela whole cell lysate with RR674 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR674 IP in Hela whole cell lysate
Lane 2: Rabbit IgG instead of RR674 in Hela whole cell lysate
Lane 3: Hela whole cell lysate, 10 µg (input)

Exposure: 40s

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.