

Product Information

Anti-IKK γ /NEMO, C-Terminal

produced in rabbit, affinity isolated antibody

Catalog Number **I5032**

Product Description

Anti-IKK γ /NEMO, C-Terminal is produced in rabbit using as immunogen a synthetic peptide (CQYQAPDMDTLQIHVME) corresponding to amino acids 400-416 of human IKK γ ^{1,2}. The sequence is identical to that from mouse.² The antibody is purified by immunoaffinity chromatography.

Anti-IKK γ /NEMO, C-Terminal recognizes human IKK γ (52 kDa) by immunoblotting. It reacts with human, mouse, and rat IKK γ /NEMO and shows no cross-reactivity to IKK α or IKK β .

The transcription factor NF- κ B is a mediator of gene expression during activation of immune and inflammatory responses. In the cell cytoplasm, NF- κ B is associated with I κ B proteins, which inhibit NF- κ B activity. The I κ B kinase complex (IKK α and IKK β) phosphorylates I κ B and mediates NF- κ B activation.

A novel molecule in the IKK complex has been identified and termed IKK γ /NEMO (NF- κ B essential modulator)/FIP3/IKKAP1.¹⁻⁵ IKK γ interacts with IKK β and is required for the activation of the IKK complex and NF- κ B by LPS (lipopolysaccharide), PMA (phorbol myristate acetate), TNF (tumor necrosis factor), and IL-1 stimulation.¹⁻⁴ IKK γ also binds to RIP (receptor interacting proteins) and NIK (NF- κ B inducing kinase) and mediates TNF-induced NF- κ B activation.³ IKK γ , along with IKK α and IKK β are regulators of inflammatory response target genes.⁶

Reagent

Supplied as a solution in phosphate buffered saline containing 0.02% sodium azide. See Certificate of Analysis for antibody concentration.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Antibody can be stored at 2-8 °C for three months and at -20 °C for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Product Profile

Immunoblotting: the recommended working antibody concentration is 0.5-1 μ g/ml using human HeLa whole cell lysate.

Note: In order to obtain the best results and assay sensitivities in various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

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4. Mercurio, F., et al., I κ B kinase (IKK)-associated protein 1, a common component of the heterogeneous IKK complex. *Mol. Cell. Biol.*, **19**, 1526-1538 (1999).
5. Jin, D.Y., and Jeang, K.T., Isolation of full-length cDNA and chromosomal localization of human NF- κ B modulator NEMO to Xq28. *J. Biomed. Sci.*, **6**, 115-120 (1999).
6. Xiang, Li, et al., IKK α , IKK β , and NEMO/IKK γ are each required for the NF- κ B-mediated inflammatory response program. *J. Biol. Chem.*, **277**, 45129-45140 (2002).

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