

Product Information

Anti-IKK γ /NEMO, N-Terminal

Developed in Rabbit

Product Number **I 5032**

Product Description

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

Anti-IKK γ /NEMO, N-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

Anti-IKK γ /NEMO, N-Terminal is supplied as approximately 0.5 mg/ml of antibody in phosphate buffered saline containing 0.02% sodium azide.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) has been sent to the attention of the safety officer at your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing is not recommended. Do not store in a "frost-free" freezer. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

For 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).
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