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Product Information

Anti- IKKε/IKK*i*, C-Terminal
produced in rabbit, affinity isolated antibody

Catalog Number **I4907**

Product Description

Anti-IKKε/IKK*i*, C-Terminal is produced in rabbit using as immunogen a synthetic peptide (NRIIERLNRVPAPPDV) corresponding to amino acids 701-716 of human IKKε/IKK*i* [1,2] conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-IKKε/IKK*i*, C-Terminal recognizes human IKKε/IKK*i*. Applications include the detection of human IKKε/IKK*i* by immunoblotting (80 kDa). It shows no cross-reactivity to IKKα, IKKβ, or IKKγ.

The transcription factor NF-κB is a mediator of gene expression during activation of immune and inflammatory responses. NF-κB is associated with IκB proteins in the cell cytoplasm, which inhibit NF-κB activity.

A novel molecule in the IKK complex has been identified and termed IKKε/IKK*i*.[1, 2] IKKε is required for the activation NF-κB by PMA (phorbol myristate acetate) and T-cell receptors but not by tumor necrosis factor α (TNFα) and IL-1.[1] IKKε/IKK*i* is expressed in a variety of tissues and is inducible by TNFα, IL-1, and LPS (lipopolysaccharides).[2]

Reagent

Supplied as a solution in phosphate buffered saline containing 0.02% sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

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: a working concentration of 0.5-1.0 μg/mL is recommended using human Jurkat whole cell lysate.

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

References

1. Peters, R.T., et al., IKKε is part of a novel PMA-inducible IκB kinase complex. *Mol. Cell*, **5**, 513-522 (2000).
2. Shimada, T., et al., IKK-*i*, a novel lipopolysaccharide-inducible IκB kinase. *Int. Immunol.*, **11**, 1357-1362 (1999).

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