



NIK (h3): 293T Lysate: sc-158772

BACKGROUND

The NF κ B transcription factor can be activated by several cytokines, including TNF and IL-1. The TNF receptor activates NF κ B through the TRAF2 adapter protein, whereas the IL-1 receptor activates NF κ B in a pathway involving TRAF6. Both TRAF2 and TRAF6 have been shown to interact with a serine/threonine kinase, designated NF κ B inducing kinase (NIK), which appears to participate in the NF κ B signaling cascades triggered by both TNF and IL-1. NIK associates with, and is a costimulator for I κ B kinase α (IKK α). IKK α , in turn, phosphorylates I κ B, resulting in I κ B degradation and NF κ B activation. NIK has sequence similarity to several kinases that participate in MAP kinase cascades. NIK appears to be uninvolved in the TRAF2-mediated activation of JNK by TNF.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MAP3K14 (human) mapping to 17q21.31.

PRODUCT

NIK (h3): 293T Lysate represents a lysate of human NIK transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

NIK (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive NIK antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.