

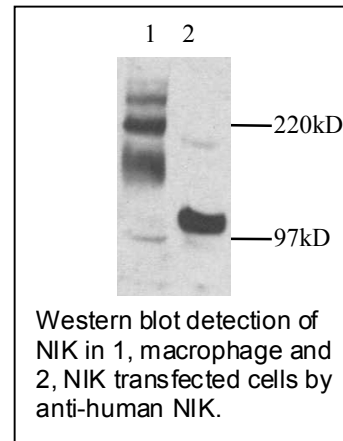
Purified Rabbit Anti-human NIK

Catalog Number: TP361

Lot Number: 021318

Content: Protein A purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 200 µl PBS)



Product Description and Usage: For research use only. This polyclonal antibody, which reacts with human NIK, was generated using an *E. coli*-expressed human NIK fragment (a.a. 795-953) as immunogen. The Ab is suitable for Western blot (1:2,000) and immunoprecipitation (1:500).

Cross-reactivity to NIK of other species has not been determined.

Storage Condition: 4 C for short term storage or -20 C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: NIK (NF-κB-inducing kinase) is a member of the MAP kinase kinase family that binds TRAF2 and stimulates NF-κB activity. NIK, initially isolated from a human B cell cDNA library, contains 795 amino acids with an apparent molecular weight of slightly more than 97 kDa on SDS gel. NIK is a serine/threonine kinase and its kinase activity contributes to IκB

phosphorylation. The carboxyl terminal segment of NIK binds TRAF2. A mutant NIK with intact carboxyl terminus but without the two lysine residues at its catalytic domain serves as a dominant-negative inhibitor for NF-κB activation. NIK also interacts with TRAF6 and mediates IL-1-induced NF-κB activation.

References:

1. Malinin, N.L. et al., (1997) MAP3K-related kinase involved in NF-κB induction by TNF, CD95 and IL-1. *Nature* 385:540-544
2. Regnier, C.H., et al., (1997) Identification and characterization of an IκB kinase. *Cell* 90:373-383
3. Song, H.Y., et al., (1997) Tumor necrosis factor (TNF)-mediated kinase cascades: bifurcation of nuclear factor-κB and c-jun N-terminal kinase (JNK/SAPK) pathways at TNF receptor-associated factor 2. *Proc. Natl. Acad. Sci. USA* 94:9792-9796