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NIK Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7967C

Product Information

Application	IHC-P, WB, E
Primary Accession	Q99558
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	104042
Antigen Region	119-148

Additional Information

Gene ID	9020
Other Names	Mitogen-activated protein kinase kinase kinase 14, NF-kappa-beta-inducing kinase, HsNIK, Serine/threonine-protein kinase NIK, MAP3K14, NIK
Target/Specificity	This NIK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-148 amino acids from the Central region of human NIK.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NIK Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MAP3K14 (HGNC:6853)
Function	Lymphotoxin beta-activated kinase which seems to be exclusively involved in the activation of NF-kappa-B and its transcriptional activity. Phosphorylates CHUK/IKKA, thereby promoting proteolytic processing of NFKB2/P100, which leads to NF-kappa-B activation via the non-canonical pathway (PubMed:25406581, PubMed:29230214). Has an essential role in the

	non-canonical NF-kappa-B signaling that regulates genes encoding molecules involved in B-cell survival, lymphoid organogenesis, and immune response (PubMed:25406581). Could act in a receptor-selective manner.
Cellular Location	Cytoplasm.
Tissue Location	Weakly expressed in testis, small intestine, spleen, thymus, peripheral blood leukocytes, prostate, ovary and colon

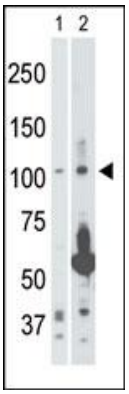
Background

NIK (mitogen-activated protein kinase kinase kinase 14), a member of the Ser/Thr protein kinase family, binds to TRAF2 and stimulates NF-kappaB activity. It shares sequence similarity with several other MAPKK kinases. It participates in an NF-kappaB-inducing signalling cascade common to receptors of the tumour-necrosis/nerve-growth factor (TNF/NGF) family and to the interleukin-1 type-I receptor.

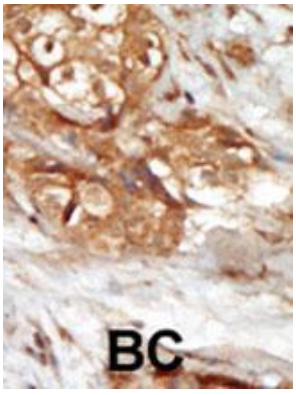
References

Andreakos, E., et al., Blood 101(3):983-991 (2003).
Ninomiya-Tsuji, J., et al., Nature 398(6724):252-256 (1999).
Aronsson, F.C., et al., Hum. Genet. 103(3):340-345 (1998).
Lin, X., et al., Mol. Cell. Biol. 18(10):5899-5907 (1998).
Malinin, N.L., et al., Nature 385(6616):540-544 (1997).

Images



The anti-NIK Pab (Cat. #AP7967c) is used in Western blot to detect NIK in 293 cell lysate (Lane 1) and rat testis tissue lysate (Lane 2).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.