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MKNK1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7151a

Product Information

Application	WB, E
Primary Accession	Q9BUB5
Other Accession	O08605
Reactivity	Human
Predicted	Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB8561
Calculated MW	51342
Antigen Region	1-30

Additional Information

Gene ID	8569
Other Names	MAP kinase-interacting serine/threonine-protein kinase 1, MAP kinase signal-integrating kinase 1, MAPK signal-integrating kinase 1, Mnk1, MKNK1, MNK1
Target/Specificity	This MKNK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MKNK1.
Dilution	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	MKNK1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MKNK1
Synonyms	MNK1

Function	May play a role in the response to environmental stress and cytokines. Appears to regulate translation by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine- containing mRNA cap.
Cellular Location	[Isoform 2]: Cytoplasm.
Tissue Location	Ubiquitous..

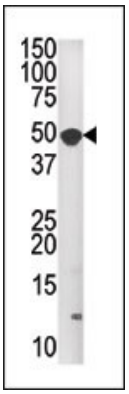
Background

MKNK1 encodes a predicted 424-amino acid protein containing a sequence typical of the catalytic domain of serine/threonine kinases and a putative N-terminal nuclear localization signal sequence.C-terminal region of MKNK1 was phosphorylated and activated in vivo and in vitro by ERK1 and p38 MAP kinases, but not by JNK/SAPK. The activated ERK is essential for the activation of MKNK1 in insect cells. MKNK1 was activated following stimulation of HeLa cells with a variety of extracellular stimuli. MNK1 bind tightly to the growth factor-regulated MAP kinases, Erk1 and Erk2, and also binds strongly to the stress-activated kinase, p38.

References

Orton, K.C., et al., J. Biol. Chem. 279(37):38649-38657 (2004).
Cuesta, R., et al., J. Virol. 78(14):7707-7716 (2004).
Knauf, U., et al., Mol. Cell. Biol. 21(16):5500-5511 (2001).
Cuesta, R., et al., Genes Dev. 14(12):1460-1470 (2000).
Fukunaga, R., et al., EMBO J. 16(8):1921-1933 (1997).

Images



The anti-MKNK1 Pab (Cat. #AP7151a) is used in Western blot to detect MKNK1 in A2058 tissue lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.