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MNK2 (MKNK2) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7152a

Product Information

Application	WB, E
Primary Accession	Q9HBH9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5513
Calculated MW	51875
Antigen Region	402-432

Additional Information

Gene ID	2872
Other Names	MAP kinase-interacting serine/threonine-protein kinase 2, MAP kinase signal-integrating kinase 2, MAPK signal-integrating kinase 2, Mnk2, MKNK2, GPRK7, MNK2
Target/Specificity	This MNK2 (MKNK2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 402-432 amino acids from the C-terminal region of human MNK2 (MKNK2).
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	MNK2 (MKNK2) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MKNK2
Synonyms	GPRK7, MNK2
Function	Serine/threonine-protein kinase that phosphorylates SFPQ/PSF, HNRNPA1

and EIF4E. 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. Required for mediating PP2A- inhibition-induced EIF4E phosphorylation. Triggers EIF4E shuttling from cytoplasm to nucleus. Isoform 1 displays a high basal kinase activity, but isoform 2 exhibits a very low kinase activity. Acts as a mediator of the suppressive effects of IFNgamma on hematopoiesis. Negative regulator for signals that control generation of arsenic trioxide As(2)O(3)-dependent apoptosis and anti-leukemic responses. Involved in anti-apoptotic signaling in response to serum withdrawal.

Cellular Location [Isoform 2]: Nucleus, PML body.

Tissue Location Ubiquitously expressed in all tissues examined. Isoform 2 is expressed at higher levels in the ovary than is isoform 1

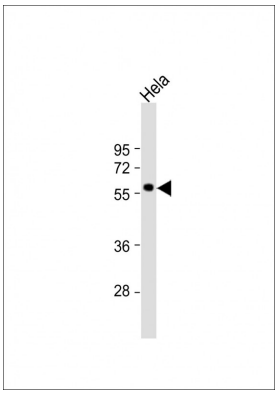
Background

MKNK2 may play a role in the response to environmental stress and cytokines. This protein appears to regulate transcription by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap.

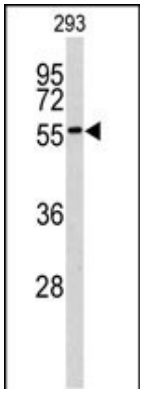
References

Scheper, G.C., et al., Mol. Cell. Biol. 23(16):5692-5705 (2003). Knauf, U., et al., Mol. Cell. Biol. 21(16):5500-5511 (2001). Scheper, G.C., et al., Mol. Cell. Biol. 21(3):743-754 (2001). Slentz-Kesler, K., et al., Genomics 69(1):63-71 (2000). Haribabu, B., et al., Proc. Natl. Acad. Sci. U.S.A. 90(20):9398-9402 (1993).

Images



Anti-MKNK2 Antibody (C-term) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of MNK2 (MKNK2) antibody (C-term) (Cat.# AP7152a) in 293 cell line lysates (35ug/lane). MNK2 (arrow) was detected using the purified Pab.