

Product datasheet for **AP13616PU-N**

MNK2 (MKNK2) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100 - 1/500. Flow cytometry.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human MKNK2.
Specificity:	This antibody reacts to MNK2.
Formulation:	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	MAP kinase interacting serine/threonine kinase 2
Database Link:	Entrez Gene 2872 Human Q9HBH9



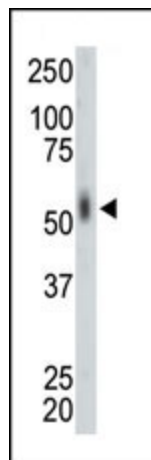
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Background:

MAP kinase-interacting kinase 1 (Mnk1) and Mnk2, members of the Ser/Thr protein kinase family, bind tightly to the growth factor-regulated MAP kinases, Erk1 and Erk2. Erk and p38 phosphorylate MNK1 and Mnk2, which stimulates their in vitro kinase activity toward a substrate, eukaryotic initiation factor-4E (eIF-4E). Overexpression of Mnk2 results in increased phosphorylation of endogenous eIF-4E, showing that it can act as an eIF-4E kinase in vivo. Mnk2 may play a role in the response to environmental stress and cytokines. This ubiquitously expressed protein appears to regulate transcription by phosphorylating eIF-4E, thus increasing the affinity of this protein for the 7-methylguanosine-containing mRNA cap. Expression of active mutants of MNK1 and MNK2 in 293 cells diminishes cap-dependent translation relative to cap-independent translation in a transient reporter assay. Human Mnk2 is homologous to murine Mnk2 (approximately 94% identical) and human Mnk1 (71% identical). In vitro phosphorylation studies show that Mnk2 is a significantly better substrate than Mnk1 for extracellular signal-regulated kinase 2 (Erk2), p38MAPKalpha, and p38MAPKbeta. Mnk2 has also been shown to interact with the C-terminal regions of eIF-4G1 and eIF-4G2.

Synonyms:

GPRK7, MNK2, MAP kinase-interacting serine/threonine-protein kinase 2

Product images:

The anti-MKNK2 Pab is used in Western blot to detect MKNK2 in mouse lung tissue lysate.