

MNK1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7154a**Specification**

MNK1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9BUB5](#)**MNK1 Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP7154a](/product/products/AP7154a) was selected from the N-term region of human MNK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MNK1 Antibody (N-term) Blocking Peptide - 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..

MNK1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MNK1 Antibody (N-term) Blocking Peptide - Images

MNK1 Antibody (N-term) Blocking Peptide - 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.

MNK1 Antibody (N-term) Blocking Peptide - 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).