

MINK1 / MINK Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10905**Specification**

MINK1 / MINK Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q8N4C8
Reactivity	Human, Mouse, Monkey, Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	150kDa KDa

MINK1 / MINK Antibody (Internal) - Additional Information**Gene ID** 50488**Other Names**

Misshapen-like kinase 1, 2.7.11.1, GCK family kinase MiNK, MAPK/ERK kinase kinase kinase 6, MEK kinase kinase 6, MEKKK 6, Misshapen/NIK-related kinase, Mitogen-activated protein kinase kinase kinase kinase 6, MINK1 (HGNC:17565)

Target/Specificity

Human MINK1 / MAP4K6. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

MINK1 / MINK Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

MINK1 / MINK Antibody (Internal) - Protein Information**Name** MINK1 ([HGNC:17565](#))**Function**

Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1.

Cellular Location

Cytoplasm. Postsynaptic density. Cell projection, axon. Cell projection, dendrite

Tissue Location

Expressed in the brain, isoform 2 is more abundant than isoform 1. Isoform 3 is ubiquitously expressed. Isoform 1 is most abundant in the skeletal muscle. Isoform 4 is ubiquitously expressed with relative high levels in brain, skeletal muscle, pancreas and testis.

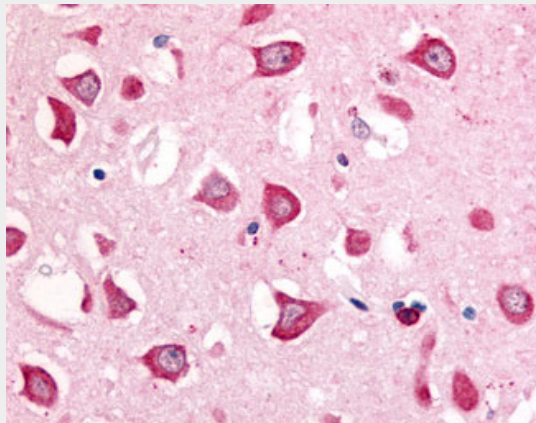
Volume

50 µl

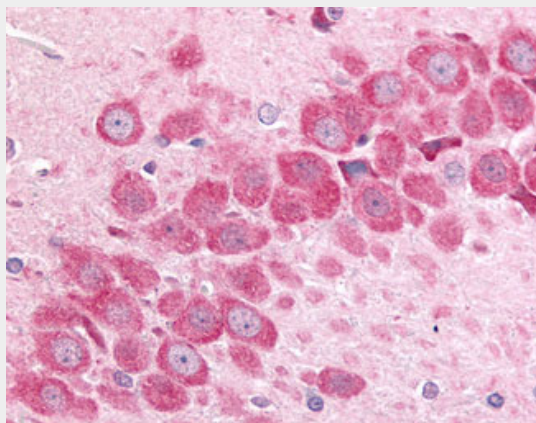
MINK1 / MINK Antibody (Internal) - Protocols

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

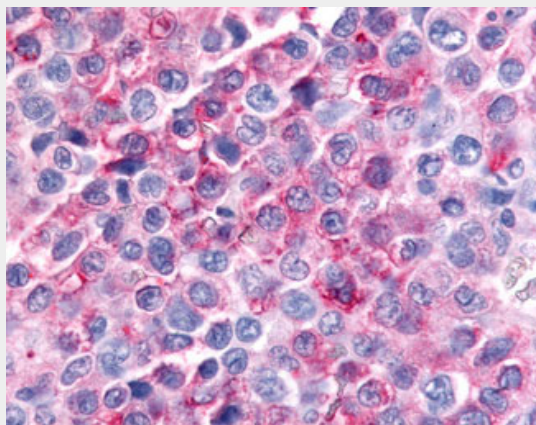
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MINK1 / MINK Antibody (Internal) - Images

Anti-MINK1 / MAP4K6 antibody ALS10905 IHC of human hippocampus.



Anti-MINK1 / MAP4K6 antibody ALS10905 IHC of rat hippocampus.



Anti-MINK1 / MINK antibody IHC of human Lymph Node, Non-Hodgkins Lymphoma.

MINK1 / MINK Antibody (Internal) - Background

Serine/threonine kinase which acts as a negative regulator of Ras-related Rap2-mediated signal transduction to control neuronal structure and AMPA receptor trafficking. Required for normal synaptic density, dendrite complexity, as well as surface AMPA receptor expression in hippocampal neurons. Can activate the JNK and MAPK14/p38 pathways and mediates stimulation of the stress-activated protein kinase MAPK14/p38 MAPK downstream of the Raf/ERK pathway. Phosphorylates: TANC1 upon stimulation by RAP2A, MBP and SMAD1. Has an essential function in negative selection of thymocytes, perhaps by coupling NCK1 to activation of JNK1.

MINK1 / MINK Antibody (Internal) - References

Dan I., et al. FEBS Lett. 469:19-23(2000).
Hu Y., et al. J. Biol. Chem. 279:54387-54397(2004).
Hu Y., et al. J. Biol. Chem. 280:5128-5128(2005).
Zody M.C., et al. Nature 440:1045-1049(2006).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.