

Mouse Dclk1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14964a**Specification**

Mouse Dclk1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [Q9JLM8](#)

Mouse Dclk1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 13175

Other Names

Serine/threonine-protein kinase DCLK1, Doublecortin-like and CAM kinase-like 1, Doublecortin-like kinase 1, Dclk1, Dcamk11, Dclk

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.

Mouse Dclk1 Antibody (N-term) Blocking Peptide - Protein Information

Name Dclk1

Synonyms Dcamk11, Dclk

Function

Probable kinase that may be involved in a calcium-signaling pathway controlling neuronal migration in the developing brain. May also participate in functions of the mature nervous system (By similarity).

Mouse Dclk1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Dclk1 Antibody (N-term) Blocking Peptide - Images

Mouse Dclk1 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the protein kinasesuperfamily and the doublecortin family. The protein encoded bythis gene contains two N-terminal doublecortin domains, which bindmicrotubules and regulate microtubule polymerization, a C-terminalserine/threonine protein kinase domain, which shows substantialhomology to Ca²⁺/calmodulin-dependent protein kinase, and aserine/proline-rich domain in between the doublecortin and theprotein kinase domains, which mediates multiple protein-proteininteractions. The microtubule-polymerizing activity of the encodedprotein is independent of its protein kinase activity. The encodedprotein is involved in several different cellular processes,including neuronal migration, retrograde transport, neuronalapoptosis and neurogenesis. This gene is up-regulated bybrain-derived neurotrophic factor and associated with memory andgeneral cognitive abilities. Multiple transcript variants generatedby two alternative promoter usage and alternative splicing havebeen found, but the biological validity of some variants has notbeen determined. These variants encode different isoforms, whichare differentially expressed and have different kinase activities.

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Dijkmans, T.F., et al. Cent Nerv Syst Agents Med Chem 10(1):32-46(2010)Munger, S.C., et al. Genes Dev. 23(21):2521-2536(2009)Tsang, W.H., et al. Genomics 94(3):177-187(2009)Boekhoorn, K., et al. J. Comp. Neurol. 507(4):1639-1652(2008)Tuy, F.P., et al. Dev. Neurosci. 30 (1-3), 171-186 (2008) :