

**DCAMKL1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7219a**

**Specification**

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**DCAMKL1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O15075</a>
Other Accession	<a href="#">O9JLM8</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

**DCAMKL1 Antibody (N-term) - Additional Information**

**Gene ID** 9201

**Other Names**

Serine/threonine-protein kinase DCLK1, Doublecortin domain-containing protein 3A, Doublecortin-like and CAM kinase-like 1, Doublecortin-like kinase 1, DCLK1, DCAMKL1, DCDC3A, KIAA0369

**Target/Specificity**

This DCAMKL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DCAMKL1.

**Dilution**

WB~~1:1000

**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**

DCAMKL1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DCAMKL1 Antibody (N-term) - Protein Information**

**Name** DCLK1

**Synonyms** DCAMKL1, DCDC3A, KIAA0369

**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.

**Tissue Location**

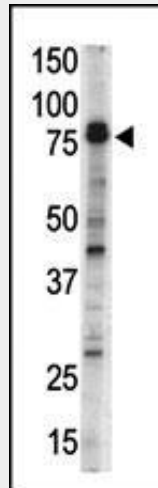
In fetal tissues, highly expressed in brain, detectable in lung and liver, but not in kidney. In adult tissues, expressed ubiquitously in the brain, detectable in the heart, liver, spleen, thymus, prostate, testis, ovary, small intestine and colon. The type A isoforms seem to be expressed predominantly in fetal brain whereas type B isoforms are expressed abundantly in both fetal and adult brain.

**DCAMKL1 Antibody (N-term) - Protocols**

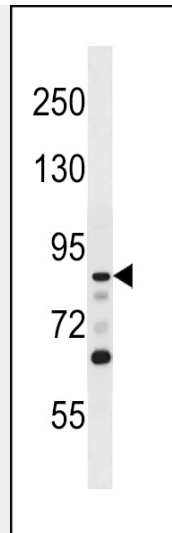
Provided below are standard protocols that you may find useful for product applications.

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

**DCAMKL1 Antibody (N-term) - Images**



Western blot analysis of DCAMKL1 Antibody (N-term)(Cat. #AP7219a) in mouse brain tissue lysate. DCAMKL1 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



DCAMKL1 Antibody (D13) (Cat. #AP7219a) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the DCAMKL1 antibody detected the DCAMKL1 protein (arrow).

#### **DCAMKL1 Antibody (N-term) - Background**

Doublecortin-like kinase (DCAMKL1) (Ser/Thr protein kinase family) is essential for proper neurogenesis, neuronal migration, and axonal wiring. DCAMKL1 is involved in a calcium-signaling pathway controlling neuronal migration in the developing brain, and participates in functions of the mature nervous system. DCAMKL1 protein shares high homology with doublecortin (DCX). DCLK, but not DCX, is highly expressed in regions of active neurogenesis in the neocortex and cerebellum. DCAMKL1 controls mitotic division by regulating spindle formation and also determines the fate of neural progenitors during cortical neurogenesis.

#### **DCAMKL1 Antibody (N-term) - References**

Matsumoto, N., et al., Genomics 56(2):179-183 (1999).  
Sossey-Alaoui, K., et al., Genomics 56(1):121-126 (1999).  
Omori, Y., et al., J. Hum. Genet. 43(3):169-177 (1998).  
Nagase, T., et al., DNA Res. 4(2):141-150 (1997).

#### **DCAMKL1 Antibody (N-term) - Citations**

- [A multicellular approach forms a significant amount of tissue-engineered small intestine in the mouse.](#)
- [IFN- \$\beta\$  inhibits gastric carcinogenesis by inducing epithelial cell autophagy and T-cell apoptosis.](#)
- [Conditional deletion of I \$\kappa\$ B-kinase-beta accelerates helicobacter-dependent gastric apoptosis, proliferation, and preneoplasia.](#)
- [Inactivating cholecystinin-2 receptor inhibits progastrin-dependent colonic crypt fission, proliferation, and colorectal cancer in mice.](#)
- [Hepatic effects of a methionine-choline-deficient diet in hepatocyte RXR \$\alpha\$ -null mice.](#)