

CAB4372

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## Product Information

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|---------------------|---------|----------------------|--------|--------------------|-----------------|
| <b>Product SKU:</b> | CAB4372 | <b>Gene ID:</b>      | 9201   | <b>Size:</b>       | 20uL, 100uL     |
| <b>Clone No:</b>    | ARC0984 | <b>Host Species:</b> | Rabbit | <b>Reactivity:</b> | Human,Mouse,Rat |

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## Additional Information

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| <b>Observed MW:</b>   | 50kDa/82kDa | <b>Conjugate:</b> | Unconjugated |
| <b>Calculated MW:</b> | 82kDa       | <b>Isotype:</b>   | IgG          |

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## Immunogen Information

**Background:** This gene encodes a member of the protein kinase superfamily and the doublecortin family. The protein encoded by this gene contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization, a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca<sup>2+</sup>/calmodulin-dependent protein kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. The microtubule-polymerizing activity of the encoded protein is independent of its protein kinase activity. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been reported, but the full-length nature and biological validity of some variants have not been defined. These variants encode different isoforms, which are differentially expressed and have different kinase activities.

**Recommended Dilution:** WB,1:500 - 1:1000

**Synonyms:** CL1; DCLK; CLICK1; DCDC3A; DCAMKL1; DCAMKL1/DCLK1

**Purification Method:** Affinity purification

**Immunogen:** A synthetic peptide corresponding to a sequence within amino acids 600-700 of human DCAMKL1/DCLK1 (O15075).

**Storage:** Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.