

DCLK3 Antibody

Catalog # ASC11081

Product Information

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| Application | WB, IF, E |
| Primary Accession | Q9C098 |
| Other Accession | NP_208382 , 149589021 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Calculated MW | 73814 |
| Concentration (mg/ml) | 1 mg/mL |
| Conjugate | Unconjugated |
| Application Notes | DCLK3 antibody can be used for detection of DCLK3 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunofluorescence starting at 20 μ g/mL. For immunofluorescence start at 20 μ g/mL. |

Additional Information

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| Gene ID | 85443 |
| Other Names | Serine/threonine-protein kinase DCLK3, 2.7.11.1, Doublecortin domain-containing protein 3C, Doublecortin-like and CAM kinase-like 3, Doublecortin-like kinase 3, DCLK3, DCAMKL3, DCDC3C, KIAA1765 |
| Target/Specificity | DCLK3; |
| Reconstitution & Storage | DCLK3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| Precautions | DCLK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|--------------------------|---------------------------|
| Name | DCLK3 |
| Synonyms | DCAMKL3, DCDC3C, KIAA1765 |
| Cellular Location | Cytoplasm. Nucleus. |

Background

DCLK3 Antibody: DCLK3 is one of three doublecortin-like kinases similar to the Ca²⁺/calmodulin-dependent protein kinase (CaMK) family. DCLK3 mRNA, like that of the homologous DCLK1 and DCLK3, is highly expressed in adult brain, but only DCLK3 transcripts are present in liver and kidney, suggesting that DCLK3 may play other roles than in cortical development. The DCLK proteins are homologous to Doublecortin (DCX), a protein that is mutated in X-linked human lissencephaly. In mouse models where the DCX gene has been disrupted, DCLK1 expression increases slightly and appears to compensate for the loss of DCX, as mice mutant for both DCX and DCLK1 show a severe phenotype including perinatal lethality, disorganized neocortical layering, and profound hippocampal cytoarchitectural disorganization.

References

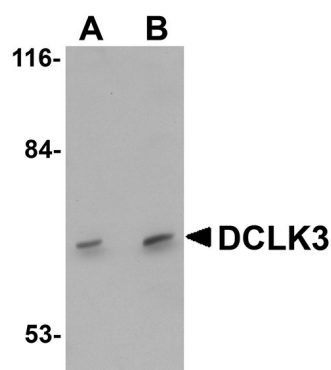
Ohmae S, Takemoto-Kimura S, Okamura M, et al. Molecular identification and characterization of a family of kinases with homology to Ca²⁺/calmodulin-dependent protein kinases I/IV. *J. Biol. Chem.* 2006; 281:20427-39.

Sossey-Alaoui K and Srivastava AK. DCAMKL1, a brain specific transmembrane protein on 13q12.3 that is similar to doublecortin (DCX), *Genomics* 1999; 56:121-6.

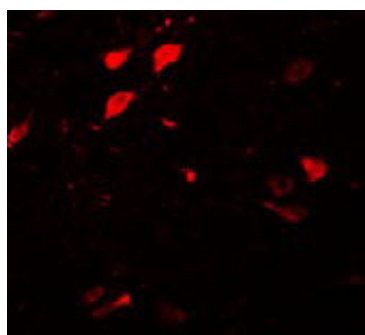
Tuy FPD, Saillour Y, Kappeler C, et al. Alternative transcripts of *Dlck1* and *Dlck2* and their expression in doublecortin knockout mice. *Dev. Neurosci.* 2008; 30:171-86.

Reiner O and Coquelle FM. Missense mutations resulting in type 1 lissencephaly. *Cell Mol. Life Sci.* 2005; 62:425-34.

Images



Western blot analysis of DCLK3 in K562 cell lysate with DCLK3 antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of DLCK3 in human brain tissue with DLCK3 antibody at 20 µg/mL.

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