10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DCLK3 Antibody

Catalog # ASC11081

Product Information

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 g/mL. Antibody can also be used for immunoflourescence starting at 20 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

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℃ for three months and -20℃, 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

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

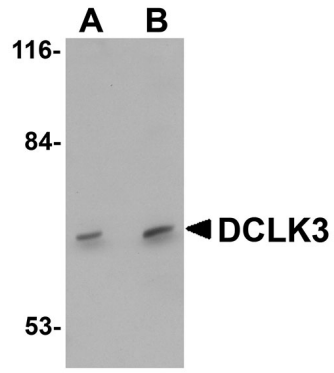
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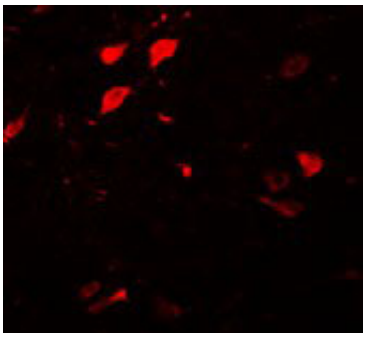
Tuy FPD, Saillour Y, Kappeler C, et al. Alternative transcripts of Dlck1 and Dlck2 and their expression in doublecortin knockout mice. Dev. Neurosci.2008; 30:171-86.

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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