

Anti-DCLK3 Antibody

Catalog Number: A15882-1

About DCLK3

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.

Overview

Product Name	Anti-DCLK3 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-DCLK3 Antibody (Catalog # A15882-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	DCLK3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	DCLK3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9C098

Technical Details

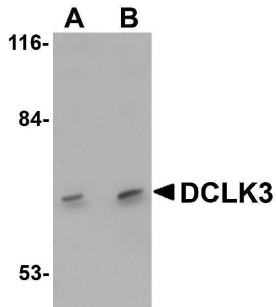
Immunogen	DCLK3 antibody was raised against a 14 amino acid synthetic peptide near the amino terminus of human DCLK3. The immunogen is located within the last 50 amino acids of DCLK3.
Predicted Reactive Species	Bovine
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	DCLK3 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

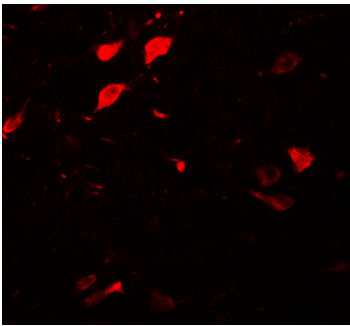
DCLK3 antibody can be used for detection of DCLK3 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

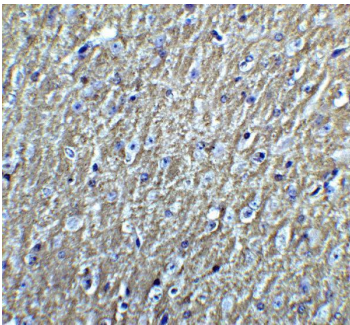
Anti-DCLK3 Antibody (A15882-1) Images



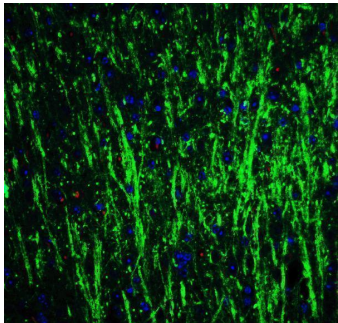
Western blot analysis of DCLK3 in K562 cell lysate with DCLK3 antibody at (A) 1 and (B) 2 ug/mL.



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



Immunohistochemistry of DCLK3 in mouse brain tissue with DCLK3 Antibody at 5 ug/mL.



Immunofluorescence of DCLK3 in mouse brain tissue with DCLK3 Antibody at 20 ug/mL. Green: DCLK3 antibody (A15882-1) Red: Phalloidin staining Blue: DAPI staining

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For Research Use Only. Not for use in diagnostic procedures.