

Anti-DCLK2 Antibody

Catalog Number: A09671-1

About DCLK2

DCLK2 is one of three doublecortin-like kinases similar to the Ca²⁺/calmodulin-dependent protein kinase (CaMK) family. DCLK2 mRNA, like that of the homologous DCLK1 and DCLK3, is highly expressed in adult brain, but only DCLK1 and DCLK2 transcripts are present in human fetal brain and the developing mouse embryo, suggesting that DCLK1 and DCLK2 may play roles 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. Unlike DCLK1, DCLK2 expression does not change in DCX-null mice.

Overview

Product Name	Anti-DCLK2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DCLK2 Antibody (Catalog # A09671-1). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	DCLK2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	DCLK2 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	Q8N568

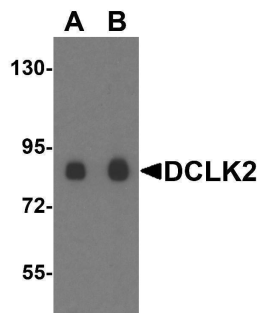
Technical Details

Immunogen	DCLK2 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of human DCLK2. The immunogen is located within the last 50 amino acids of DCLK2.
Predicted Reactive Species	Guinea Pig
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	DCLK2 Antibody is affinity chromatography purified via peptide column.

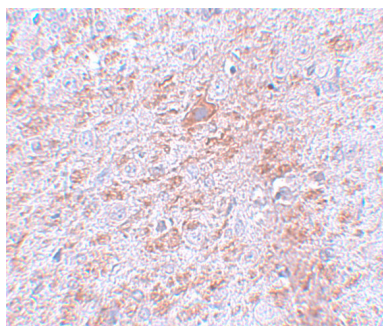
Suggested Dilutions

DCLK2 antibody can be used for detection of DCLK2 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL.
Antibody validated: Western Blot in rat samples and Immunohistochemistry in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-DCLK2 Antibody (A09671-1) Images



Western blot analysis of DCLK2 in rat brain tissue lysate with DCLK2 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of DLCK2 in rat brain tissue with DLCK2 antibody at 5 ug/mL.

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Anti-DCLK2 Antibody

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