

Basic Information

Product Name	Anti-DCLK3 Antibody
Gene Name	DCLK3
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	ELISA, WB, IHC, IF
Contents	DCLK3 Antibody is supplied in PBS containing 0.02% sodium azide.
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.
concentration	1 mg/mL
Purification	DCLK3 Antibody is affinity chromatography purified via peptide column.
Dilution Ratios	DCLK3 antibody can be used for detection of DCLK3 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/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.

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.

Background Information

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.

Selected Validation Data

Product datasheet

Anti-DCLK3 Antibody

Catalog Number: **A15882-1**

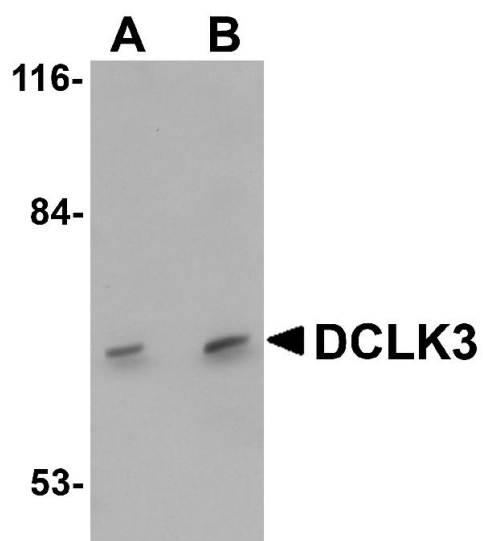
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BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center,
2nd Guanshan Road, Wuhan, China

Web: www.boster.com.cn **Phone:** +86 027-67845390 **Fax:** +86 027-67845390 **Email:** boster@boster.com.cn



Western blot analysis of DCLK3 in K562 cell lysate with DCLK3 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.