BT LAB
Bioassay Technology Laboratory
Optimize Your Research

DCLK2 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2093
Host	Mouse
Isotype	Mouse IgG2a
Size	100μL, 50μL
Immunogen	Purified recombinant fragment of human DCLK2 (AA: 652-766) expressed in mammalian.
Mol wt	83.6kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	CL2;DCK2;CLIK2;DCDC3;CLICK2;DCDC3B;DCAMKL2;CLICK-II

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

This gene encodes a member of the protein kinase superfamily and the doublecortin family. The protein encoded by this gene contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization, a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca2+/calmodulin-dependent protein kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. The microtubule-polymerizing activity of the encoded protein is independent of its protein kinase activity. Mouse studies show that the DCX gene, another family member, and this gene share function in the establishment of hippocampal organization and that their absence results in a severe epileptic phenotype and lethality, as described in human patients with lissencephaly. Multiple alternatively spliced transcript variants have been identified.

Recommended Dilution

WB: 1:500 - 1:2000

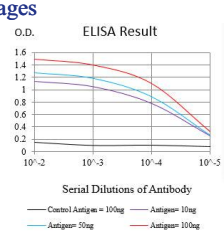
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

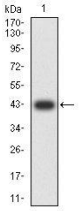
ELISA: 1:10000

Not yet tested in other applications.

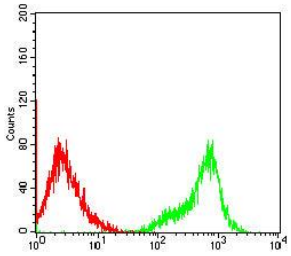
Images



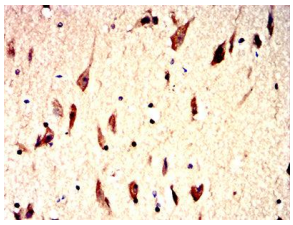
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using DCLK2 mAb against human DCLK2 (AA: 652-766) recombinant protein. (Expected MW is 42.8 kDa)



Flow cytometric analysis of U937 cells using DCLK2 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human brain tissues using DCLK2 mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com