



Mouse anti-Human DCLK2 polyclonal antibody (DPAB-DC726)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 Ca ²⁺ /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.
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Immunogen	DCAMKL2 (AAH32726, 348 a.a. ~ 437 a.a) partial recombinant protein with GST tag. The sequence is FRGLKISAHGRSSSNVNGGPELDRCISPEGVNGNRCSESSTLLEKYKIGKIVIGDGNFAVV KECIDRSTGKEFALKIIDKAKCCGKEHLIE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	DCLK2 doublecortin-like kinase 2 [Homo sapiens (human)]
Official Symbol	DCLK2
Synonyms	DCLK2; doublecortin-like kinase 2; CL2; DCK2; CLIK2; DCDC3; CLICK2; DCDC3B; DCAMKL2; CLICK-II; serine/threonine-protein kinase DCLK2; CaMK-like CREB regulatory kinase 2; doublecortin and CaM kinase-like 2; doublecortin-like and CAM kinase-like 2; doublecortin domain-containing protein 3B;
Entrez Gene ID	166614
Protein Refseq	NP_001035350
UniProt ID	Q8N568
Chromosome Location	4q31.3
Function	ATP binding; protein serine/threonine kinase activity;