



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

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

### PRODUCT INFORMATION

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

**Storage**

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

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">DCLK2 doublecortin-like kinase 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	DCLK2
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">166614</a>
<b>Protein Refseq</b>	<a href="#">NP_001035350</a>
<b>UniProt ID</b>	<a href="#">Q8N568</a>
<b>Chromosome Location</b>	4q31.3
<b>Function</b>	ATP binding; protein serine/threonine kinase activity;