

Recombinant Human DCLK2

Cat. No. DCLK2-26989TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-690 of Human DCAMKL2 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, MWt 105kDa.
Species	Human
ProteinLength	1-690 a.a.
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 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.
Biological activity	The Specific activity of DCLK2-26989TH was determined to be 94 nmol/min/mg.
Form	Liquid

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Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
GENE INFORMATION	
Gene Name	DCLK2 doublecortin-like kinase 2 [Homo sapiens]
Official Symbol	DCLK2
Synonyms	DCLK2; doublecortin-like kinase 2; DCAMKL2, doublecortin and CaM kinase like 2; serine/threonine-protein kinase DCLK2; DCDC3; DCDC3B; DCK2; MGC45428;
Gene ID	166614
mRNA Refseq	NM_001040260
Protein Refseq	NP_001035350
MIM	613166
Uniprot ID	Q8N568
Chromosome Location	4q31.3
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity;

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