

Recombinant Human DCLK2 Protein, GST-tagged

Cat. No. DCLK2-2394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DCLK2 full-length ORF (AAH32726.1, 1 a.a. - 695 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Sep 2010]
Molecular Mass	102.5 kDa
AA Sequence	MASTRSIELEHFEERDKRPRPGSRRGAPSSSSGGSSSSGPKGNGLIPSAHSAHCSF

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YRTRLQALSSEKKAKKARFYRNGDRYFKGLVFAISSDRFRSFDALLIELTRSLSDNV
 NLPQGVRTIYTIDGSRKVTSLDELLEGESYVCASNEPFRKVDYTKNINPNWSVNIKG
 GTSRALAAASSVKSEVKESKDFIKPKLVTVIRSGVKPRKAVRILLNKKTAHSFEQVLT
 DITEAIKLD SGVVKRLCTLDGKQVTCLQDFFGDDDVFIACGPEKFRYAQDDFVLDHS
 ECRVLKSSYSRSSAVKYSGSKSPGPSRRSKSPASVNGTPSSQLSTPKSTKSSSSSP
 TSPGSFRGLKISAHGRSSSNVNGGPELDRCSPEGVNGNRCSESSTLLEKYKIGKVI
 GDGNFAVVKECIDRSTGKEFALKIIDKAKCCGKEHLIENEVSILRRVKHPNIIMLVEEM
 ETATELFLVMELVKGGDLFDAITSSTKYTERDGSAMVYNLANALRYLHGLSIVHRDIK
 PENLLVCEYPDGTKSLKLGDFGLATVVEGPLYTVCGTPTYVAPEIIAETGYGLKVDIW
 AAGVITYILLCGFPFRSENNLQEDLFDQILAGKLEFPAPYWDNITDSAKELISQMLQV
 NVEARCTAGQILSHPWVSDDASQENNMQAEVTGKLKQHFNNALPKQNSTTTGVSVI
 MFDLTV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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;

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serine/threonine-protein kinase DCLK2; DCDC3; DCDC3B; DCK2; MGC45428;
CaMK-like CREB regulatory kinase 2; doublecortin and CaM kinase-like 2;
doublecortin-like and CAM kinase-like 2; doublecortin domain-containing protein 3B;
CL2; CLIK2; CLICK2; DCAMKL2; CLICK-II; DKFZp761I032;

Gene ID 166614

mRNA Refseq NM_001040260

Protein Refseq NP_001035350

MIM 613166

UniProt ID Q8N568

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