Recombinant Human DCLK2 Protein, His&GST-tagged

Cat. No. DCLK2-1318H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCLK2 Protein (Met1-Cys246) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Cys246
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 57.2 kDa

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	Accurate Molecular Mass: 61 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	DCLK2 doublecortin-like kinase 2 [Homo sapiens (human)]
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; 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

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mRNA Refseq	NM_001040260
Protein Refseq	NP_001035350
MIM	613166
UniProt ID	Q8N568

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