

Product datasheet for **TP319931**

DCAMKL2 (DCLK2) (NM_001040260) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human doublecortin-like kinase 2 (DCLK2), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219931 representing NM_001040260 Red =Cloning site Green =Tags(s)

MASTRSIELEHFEERDKRPRPGSRRGAPSSSGGSSSSGPKGNGLIPSAHSAHCSFYRTRTLQALSSEKK
AKKARFYRNGDRYFKGLVFAISSDRFRSFDALLIELTRSLSDNVNLPQGVRTIYTIDGSRKVTSLDELLE
GESYVCASNEPFRKVDYTKNINPNWSVNIKGGTSRALAAASSVKSEVKESKDFIKPKLTVIRSGVKPRK
AVRILLNKKTAHSFEQVLT DITEAIKLD SGVVKRLCTLDGKQVTC LQDFFGDDDDVFIACGPEKFRYAQDD
FVL DHSECRVLKSSYSRSSAVKYSKSPGPSRRSKSPASVNGTPSSQLSTPKSTKSSSSSPTSPGSFRG
LKQISAHGRSSSNVNGGPELDRCSPEGVNGNRCSESSTLLEKYKIGKVIGDGNFAVKECIDRSTGKEF
ALKIIDKAKCCGKEHLIENEVSILRRVKHPNIIMLVEEMETATELFLVMELVKGGDLFDAITSSTKYTER
DGSAMVYNLANALRYLHGLSIVHRDIKPENLLVCEYPDGTSKLKLGDFGLATVVEGPLYTVCGTPTYVAP
EIIAETGYGLKVDIWAAGVITYILLCGFPFSENNLQEDLFDQILAGKLEFPAPYWDNITDSAKELISQ
MLQVNVEARCTAGQILSHPWVSDDASQENNMQAEVTGKLKQHFNNALPKQNSTTTGVSVIMNTALDK
EGQ
IFCSKHCQDSGRPGMEPISPVPSPVVEIPVPGAEVPAPTPPESPTPHCPPAAPGGERAGTWRRHRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	83.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001035350
Locus ID:	166614
UniProt ID:	Q8N568
RefSeq Size:	3603
Cytogenetics:	4q31.23-q31.3
RefSeq ORF:	2298
Synonyms:	CL2; CLICK-II; CLICK2; CLIK2; DCAMKL2; DCDC3; DCDC3B; DCK2
Summary:	<p>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]</p>
Protein Families:	Druggable Genome, Protein Kinase

Product images:



Coomassie blue staining of purified DCLK2 protein (Cat# TP319931). The protein was produced from HEK293T cells transfected with DCLK2 cDNA clone (Cat# [RC219931]) using MegaTran 2.0 (Cat# [TT210002]).