

## Product datasheet for TP526409

### Dclk1 (NM\_019978) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse doublecortin-like kinase 1 (Dclk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226409 representing NM_019978 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MSFGRDMELEHFDERDKAQRYSRGSRVNGLPSPTHSAHCSFYRTRLQTLSEKKAKKVRFYRNGDRYFK GIVYAI SPDRFRSFEALLADLTRLSDNVNLPQGVRTIYTIDGLKKISSLDQLVEGESYVCGSIEPFKKL EYTKNVNPNWSNVKTTASRAVSSLATAKGGPSEVRENKDFIRPKLVTIIRSGVKPRKAVRILLNKKTA HSFEQVLTIDITDAIKLDSGVVKRLYTLDGKQVMCLQDFFGDDDFIACGPEKFRYQDDFLLDESECRVVK STSYTKIASASRRGTTKSPGPSRRSKSPASTSSVNGTPGSQLSTPRSGKSPSPSPSPGSLRKQRISQHG GSSTLSSTKVCSSMDENDGPGEGDELGRRHSLQRGWRREESEEGFQIPATITERYKVGRTIGDGNFAV KECIERSTAREYALKIIKSKCRGKEHMIQNEVSILRRVKHPNIVLLIEEMDVPTELYLVMELVKGGDLF DAITSTSKYTERDASGMLYNLASAIKYLHSLNIVHRDIKPENLLVYEHQDGSKSLKLGDFGLATIVDGPL YTVCGTPTYVAPEIAETGYGLKVDIWAAGVITYILLCGFPFRGSGDDQEVLFQILMGQVDFPSPYWD NVSDSAKELINMMLLVNVDQRFSAVQVLEHPWVNDGGLPENEHQLSVAGKIKKHFNTPGPKPSSTAAGVS V IATTALDKERQVFRRRRNQDVR SRYKAQPAPPELNSESEDYSPSSSETVRSPNSPF  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-MYC/DDK
Predicted MW:	84.6 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
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.


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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_064362</a></u>
<b>Locus ID:</b>	13175
<b>UniProt ID:</b>	<u><a href="#">Q9JLM8</a></u>
<b>RefSeq Size:</b>	7865
<b>Cytogenetics:</b>	3 C
<b>RefSeq ORF:</b>	2268
<b>Synonyms:</b>	1700113D08Rik; 2810480F11Rik; AI836758; Clic; Click-I; CPG1; Cpg16; Dc; Dcamk; Dcamk1; Dcl; Dclk; mKIAA0369
<b>Summary:</b>	<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 Ca<sup>2+</sup>/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. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been found, but the biological validity of some variants has not been determined. These variants encode different isoforms, which are differentially expressed and have different kinase activities. [provided by RefSeq, Sep 2010]</p>