

## Datasheet for ABIN7317531 **DCLK1 Protein**

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### Overview

Quantity:	50 µg
Target:	DCLK1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human DCAMKL1 Protein
Sequence:	Met 1-Val 705
Characteristics:	A DNA sequence encoding the human DCLK1 (O15075-1) (Met 1-Val 705) was expressed and purified with two additional amino acids (Gly & Pro ) at the N-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	DCLK1
Alternative Name:	DCAMKL1 ( <a href="#">DCLK1 Products</a> )
Background:	Background: DCAMKL1, also known as DCLK1, is a member of the protein kinase superfamily and the doublecortin family. It 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

## Target Details

kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. DCAMKL1 is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. Its microtubule-polymerizing activity is independent of its protein kinase activity. DCAMKL1 may be involved in a calcium-signaling pathway controlling neuronal migration in the developing brain. It may also participate in functions of the mature nervous system.

Synonym: CL1,CLICK1,DCAMKL1,DCDC3A,DCLK

Molecular Weight: 78.5 kDa

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.