SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-DCAMKL1 antibody

Catalog Number: SL11455R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	DCAMKL1
Immunogen:	KLH conjugated synthetic peptide derived from human DCAMKL1: 151-250/740
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Pig, Cow, Horse, Sheep)
Predicted MW.:	82kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	Lissencephaly (smooth brain) is an abnormality of brain development characterized by incomplete neuronal migration and a smooth cerebral surface, manifesting as severe mental retardation. Genetic analysis has identified two proteins that are mutated in some cases of lissencephaly, designated lissencephaly-1 protein (LIS1) and doublecortin. LIS1 displays sequence homology to ?subunits of heterotrimeric G proteins, and doublecortin contains a consensus Abl phosphorylation site. In addition, the DCAMKL1 (doublecortin-like and CAM kinase-like 1) protein shows homology to doublecortin. All three proteins are highly expressed in developing brain and may function together to regulate microtubules involved in neuronal migration. The DCAMKL1 protein encodes a functional kinase that is capable of phosphorylating myelin basic protein and itself, but its kinase activity does not appear to affect its microtubule polymerization activity. **Function:** Probable kinase that may be involved in a calcium-signaling

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	pathway controlling neuronal migration in the developing brain. May also participate in functions of the mature nervous system. **Tissue Specificity:** In fetal tissues, highly expressed in brain, detectable in lung and liver, but not in kidney. In adult tissues, expressed ubiquitously in the brain, detectable in the heart, liver, spleen, thymus, prostate, testis, ovary, small intestine and colon. The type A isoforms seem to be expressed predominantly in fetal brain whereas type B isoforms are expressed abundantly in both fetal and adult brain. **Similarity:** Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 2 doublecortin domains. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 9201 Human **Entrez Gene:** 13175 Mouse **Entrez Gene:** 83825 Rat Omim: 604742 Human **SwissProt:** O15075 Human **SwissProt:** Q9JLM8 Mouse **SwissProt:** O08875 Rat **Unigene:** 507755 Human **Unigene:** 393242 Mouse **Unigene:** 472264 Mouse **Unigene:** 155540 Rat **Unigene:** 80575 Rat

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