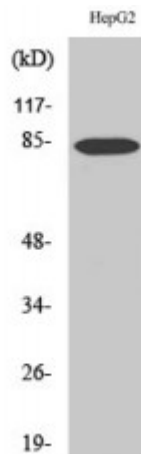


Anti-DCAMKL2 antibody



Description

DCAMKL2 is a protein encoded by the DCLK2 gene which is approximately 83,6 kDa. DCAMKL2 is localised to the cytoplasm and is involved in transferase activity, transferring phosphorus-containing groups and protein tyrosine kinase activity. This protein falls under the protein kinase superfamily and the doublecortin family. It contains two N-terminal doublecortin domains, which bind microtubules and regulate microtubule polymerization. It also contains a C-terminal serine/threonine protein kinase domain, which shows substantial homology to Ca²⁺/calmodulin-dependent protein kinase. DCAMKL2 is expressed in the brain, heart and eye. The absence of this protein results in a severe epileptic phenotype and lethality. STJ92663 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of DCAMKL2 protein.

Model	STJ92663
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IF, WB
Immunogen	Synthesized peptide derived from human DCAMKL2
Immunogen Region	1-80 aa, N-terminal
Gene ID	166614
Gene Symbol	DCLK2
Dilution range	WB 1:500-1:2000IF 1:200-1:1000ELISA 1:10000
Specificity	DCAMKL2 Polyclonal Antibody detects endogenous levels of DCAMKL2

protein.

Tissue Specificity	Expressed in the brain, heart and eyes.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Serine/threonine-protein kinase DCLK2 CaMK-like CREB regulatory kinase 2 CL2 CLICK-II CLICK2 Doublecortin domain-containing protein 3B Doublecortin-like and CAM kinase-like 2 Doublecortin-like kinase 2
Molecular Weight	83 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:19002OMIM:613166
Alternative Names	Serine/threonine-protein kinase DCLK2 CaMK-like CREB regulatory kinase 2 CL2 CLICK-II CLICK2 Doublecortin domain-containing protein 3B Doublecortin-like and CAM kinase-like 2 Doublecortin-like kinase 2
Function	Protein kinase with a significantly reduced C(a2+)/CAM affinity and dependence compared to other members of the CaMK family. May play a role in the down-regulation of CRE-dependent gene activation probably by phosphorylation of the CREB coactivator CRTC2/TORC2 and the resulting retention of TORC2 in the cytoplasm .
Sequence and Domain Family	The doublecortin domains are involved in the colocalization with microtubules.
Cellular Localization	Cytoplasm, cytoskeleton. Colocalizes with microtubules.
Post-translational Modifications	Autophosphorylated.