ARG55182
anti-DCLK1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DCLK1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DCLK1
Species	Human
Immunogen	Synthetic peptide (14 aa) within the last 50 aa of Human DCLK1.
Conjugation	Un-conjugated
Alternate Names	DCAMKL1; DCLK; Serine/threonine-protein kinase DCLK1; Doublecortin-like and CAM kinase-like 1; DCDC3A; EC 2.7.11.1; Doublecortin domain-containing protein 3A; CL1; Doublecortin-like kinase 1; CLICK1

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
IHC-P	Assay-dependent
WB	0.5 - 1 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Human Brain Tissue Lysate

Properties

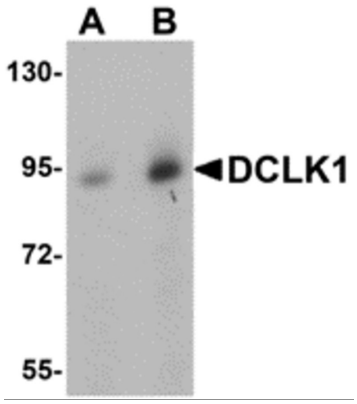
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

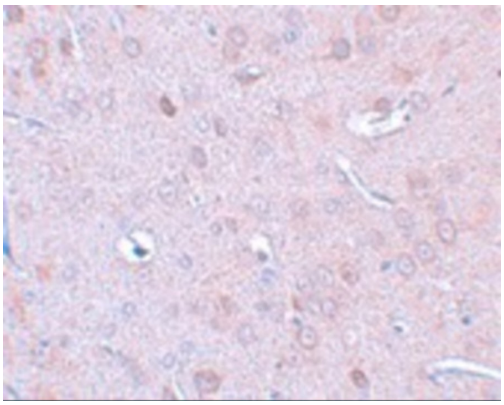
Database links	GeneID: 13175 Mouse GeneID: 9201 Human Swiss-port # O15075 Human Swiss-port # Q9JLM8 Mouse
Gene Symbol	DCLK1
Gene Full Name	doublecortin-like kinase 1
Background	DCLK1 is one of three doublecortin-like kinases similar to the Ca2+/calmodulin-dependent protein kinase (CaMK) family. DCLK1 mRNA, like that of the homologous DCLK2 and DCLK3, is highly expressed in adult brain, but only DCLK1 and DCLK2 transcripts are present in human fetal brain and the developing mouse embryo, suggesting that DCLK1 and DCLK2 may play roles in cortical development. The DCLK proteins are homologous to Doublecortin (DCX), a gene that is mutated in X-linked human lissencephaly. In mouse models where the DCX gene has been disrupted, DCLK1 expression increases slightly and appears to compensate for the loss of DCX, as mice mutant for both DCX and DCLK1 show a severe phenotype including perinatal lethality, disorganized neocortical layering, and profound hippocampal cytoarchitectural disorganization. Unlike DCLK1, DCLK2 expression does not change in DCX-null mice.
Function	Probable kinase that may be involved in a calcium-signaling pathway controlling neuronal migration in the developing brain. May also participate in functions of the mature nervous system. [UniProt]
Research Area	Neuroscience antibody
Calculated Mw	82 kDa

Images



ARG55182 anti-DCLK1 antibody WB image

Western blot: human brain tissue lysate stained with ARG55182 anti-DCLK1 antibody at (A) 0.5 and (B) 1 ug/ml dilution.



ARG55182 anti-DCLK1 antibody IHC image

Immunohistochemistry: DLCK1 in rat brain tissue stained with ARG55182 anti-DCLK1 antibody at 2.5 ug/ml dilution.