

Rabbit anti-Human, Mouse DCAMKL1 Polyclonal Antibody | anti-DCLK1 antibody

DCAMKL1 Antibody (C-term)

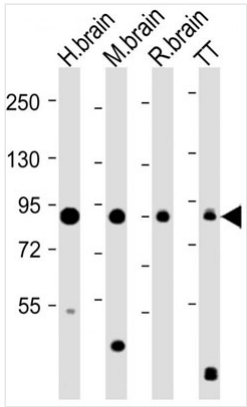
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28779	Rabbit	Human, Mouse	Western Blot, ELISA

PRODUCT SYNONYMS

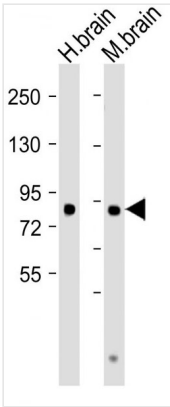
DCAMKL1; Polyclonal Antibody; DCAMKL1 Antibody (C-term); Serine/threonine-protein kinase DCLK1; Doublecortin domain-containing protein 3A; Doublecortin-like and CAM kinase-like 1; Doublecortin-like kinase 1; DCLK1; DCDC3A; KIAA0369; anti-DCLK1 antibody

PRODUCT SPECIFICATIONS

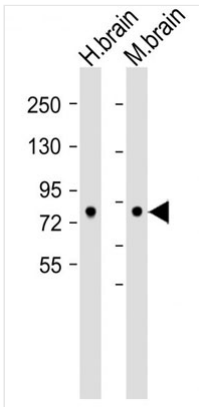
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This DCAMKL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 690-720 amino acids from the C-terminal region of human DCAMKL1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	690-720
Sequence Length	433
Applicable Applications for anti-DCLK1 antibody	WB (Western Blot), ELISA
Application Notes	WB~~1:8000
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



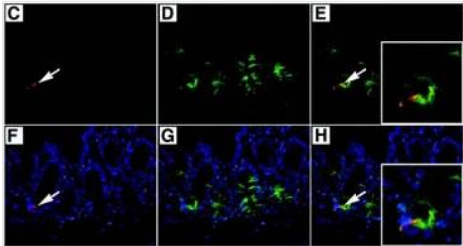
WB (Western Blot)
All lanes : Anti-hDCAMKL1-V705 at 1:8000 dilution Lane 1: Human brain lysate Lane 2: Mouse brain lysate Lane 3: Rat brain lysate Lane 4: TT whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 82 kDa Blocking/Dilution buffer: 5% NFDm/TBST



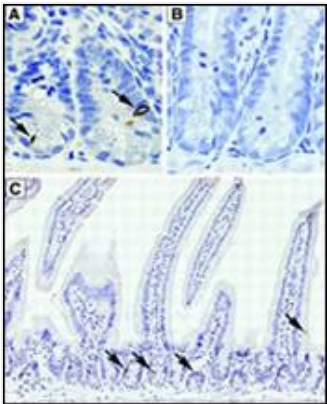
WB (Western Blot)
All lanes :DCAMKL1 Antibody (C-term) at 1:1000 dilution Lane 1: Human brain lysate Lane 2: Mouse brain lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 82 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



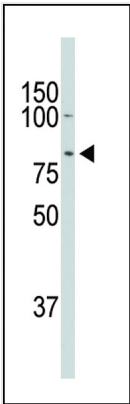
WB (Western Blot)
All lanes :DCAMKL1 Antibody (C-term) at 1:2000 dilution Lane 1: Human brain lysate Lane 2: Mouse brain lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 82 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



IF (Immunofluorescence)
C): The cell positive for DCAMKL-1, stained red (indicated by the arrow), appears at the base of the crypt. (D): Intestinal section stained for Musashi-1 (green). (E): Colocalization of DCAMKL-1 and Musashi-1 (yellow, indicated by the arrow). The magnified inset image represents the single cell positive for both DCAMKL-1 and Musashi-1. (F): Costaining of DCMAKL-1 (red, indicated by the arrow) with nuclear Hoechst 33342 (blue) staining. (G): Costaining of Musashi-1 (green) with nuclear Hoechst 33342 (blue) staining. (H): Colocalization of DCAMKL-1 and Musashi-1 (yellow, indicated by the arrow), costained with nuclear Hoechst 33342 (blue) staining. The magnified inset image represents the single cell positive for both DCAMKL-1 and Musashi-1 (yellow).



IHC (Immunohistochemistry)
Expression pattern of doublecortin and CaM kinase-like-1 (DCAMKL-1) in normal mouse small intestine. (A): Immunohistochemical staining of normal small intestine for DCAMKL-1. Arrows indicate the cells positive for DCAMKL-1 in the stem cell zone. (B): Preincubation with blocking peptide completely abolished DCAMKL-1 immunoreactivity. (C): Immunohistochemical staining of normal small intestine for DCAMKL-1. Brown indicates the cells positive for DCAMKL-1 (indicated by the arrows).



WB (Western Blot)
The DCAMKL1 Antibody (C-term) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the DCAMKL1 antibody detected the DCAMKL1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-DCLK1 antibody	Doublecortin-like kinase (DCAMKL1)(Ser/Thr protein kinase family) is essential for proper neurogenesis, neuronal migration, and axonal wiring. DCAMKL1 is involved in a calcium-signaling pathway controlling neuronal migration in the developing brain, and participates in functions of the mature nervous system. DCAMKL1 protein shares high homology with doublecortin (DCX). DCLK, but not DCX, is highly expressed in regions of active neurogenesis in the neocortex and cerebellum. DCAMKL1 controls mitotic division by regulating spindle formation and also determines the fate of neural progenitors during cortical neurogenesis.
Product Categories/Family for anti-DCLK1 antibody	Neuroscience; Signal Transduction
References	Matsumoto, N., et al., Genomics 56(2):179-183 (1999). Sossey-Alaoui, K., et al., Genomics 56(1):121-126 (1999). Omori, Y., et al., J. Hum. Genet. 43(3):169-177 (1998). Nagase, T., et al., DNA Res. 4(2):141-150 (1997).

NCBI AND UNIPROT INFORMATION

NCBI GI #	306518604
NCBI GeneID	9201
NCBI Accession #	NP_001182344.1; NP_001182345.1; NP_004725.1
NCBI GenBank Nucleotide #	NM_001195415.1
UniProt Accession #	O15075; Q5VZY8; Q5VZZ0; Q5VZZ1; B7Z3E9
Molecular Weight	82224
NCBI Official Full Name	serine/threonine-protein kinase DCLK1 isoform 2
NCBI Official Synonym Full Names	doublecortin-like kinase 1
NCBI Official Symbol	DCLK1
NCBI Official Synonym Symbols	CL1; DCLK; CLICK1; DCDC3A; DCAMKL1
NCBI Protein Information	serine/threonine-protein kinase DCLK1
UniProt Protein Name	Serine/threonine-protein kinase DCLK1
UniProt Gene Name	DCLK1
UniProt Synonym Gene Names	DCAMKL1; DCDC3A; KIAA0369
UniProt Entry Name	DCLK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dcamkl1-antibody-western-blot-elisa/28779>