

Anti-DCAMKL1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

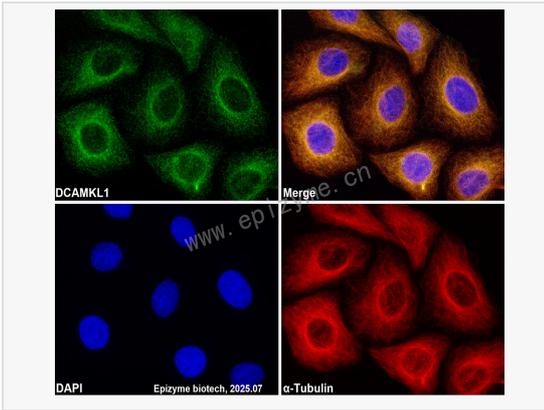
Catalog # R011482

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Mouse, Rat
Predicted	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	67L13M22
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human DCAMKL1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-DCAMKL1 Rabbit mAb [67L13M22] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Calcium/calmodulin-dependent protein kinase type I-like CPG16; CL1; CLICK1; Cpg16; DCDC3A; Dcl; Dclk; Dclk1; DCLK1_HUMAN; Doublecortin domain-containing protein 3A; Doublecortin-like and CAM kinase-like 1; Doublecortin-like kinase 1; KIAA0369; Serine/threonine-protein kinase DCAMKL1; Serine/threonine-protein kinase DCLK1; DCAMKL1.
Calculated MW	Calculated MW: 82 kDa; Observed MW: 82 kDa
Uniprot ID	O15075
Gene ID	9201
Background	This gene encodes a member of the protein kinase superfamily and the doublecortin family. The protein encoded by this gene 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 ²⁺ /calmodulin-dependent protein kinase, and a serine/proline-rich domain in between the doublecortin and the protein kinase domains, which mediates multiple protein-protein interactions. The microtubule-polymerizing activity of the encoded protein is independent of its protein kinase activity. The encoded protein is involved in several different cellular processes, including neuronal migration, retrograde transport, neuronal apoptosis and neurogenesis. This gene is up-regulated by brain-derived neurotrophic factor and associated with memory and general cognitive abilities. Multiple transcript variants generated by two alternative promoter usage and alternative splicing have been reported, but the full-length nature and biological validity of some variants have not been defined. These variants encode different isoforms, which are differentially expressed and have different kinase activities.[provided by RefSeq, Sep 2010]



Immunofluorescence - Anti-DCAMKL1 Rabbit mAb [67L13M22]

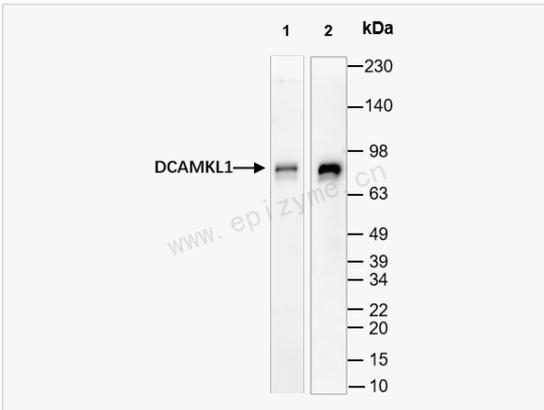
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R011482 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-DCAMKL1 Rabbit mAb [67L13M22]

All lanes: R011482 at 1:1,000 dilution

Lane 1: Mouse brain whole tissue lysates

Lane 2: Rat brain whole tissue lysates

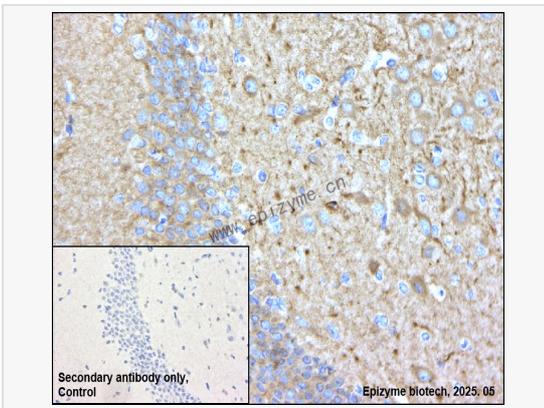
Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 82 kDa

Observed band size: 82 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-DCAMKL1 Rabbit mAb [67L13M22]

Sample: Paraformaldehyde-fixed, paraffin embedded rat brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

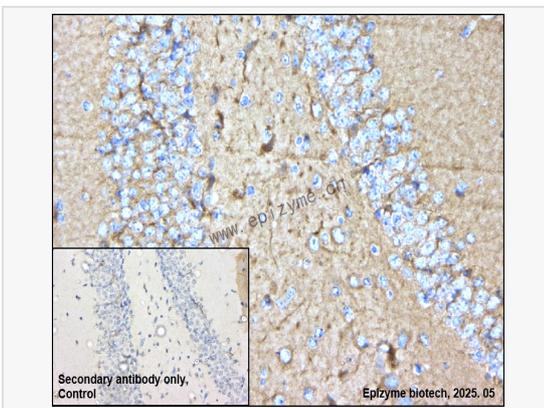
Primary antibody: R011482 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-DCAMKL1 Rabbit mAb [67L13M22]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R011482 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.

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