

For Research Use Only

CoraLite® Plus 647-conjugated DCLK1 Monoclonal antibody

Catalog Number: CL647-68234



Basic Information

Catalog Number:

CL647-68234

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17110

GenBank Accession Number:

BC152456

GeneID (NCBI):

9201

UNIPROT ID:

O15075

Full Name:

doublecortin-like kinase 1

Calculated MW:

729 aa, 81 kDa

Observed MW:

46 kDa, 82 kDa

Purification Method:

Protein G purification

CloneNo.:

3C12C1

Recommended Dilutions:

IF-P: 1:50-1:500

FC (Intra): 0.4 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Applications

Tested Applications:

IF-P, FC (Intra)

Species Specificity:

human, mouse, rat, pig, rabbit

Positive Controls:

IF-P: mouse brain tissue,

FC (Intra): Neuro-2a cells,

Background Information

DCLK1 (Serine/threonine-protein kinase DCLK1) is also named as DCAMKL1, DCDC3A, KIAA0369 and belongs to the CAMK Ser/Thr protein kinase family. It is a microtubule-associated kinase that can undergo autophosphorylation and it also has microtubule-polymerizing activity that is independent of its protein kinase activity (PMID: 11124993). It plays a unique role in mitotic spindle integrity during early neurogenesis in radial glial cell proliferation and their radial process stability. DCLK1 is a unique marker for distinguishing tumor stem cells from intestinal normal stem cells (PMID: 23202126). This protein has 4 isoforms produced by alternative splicing with the molecular weight of 82 kDa, 81 kDa, 47 kDa and 48 kDa.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

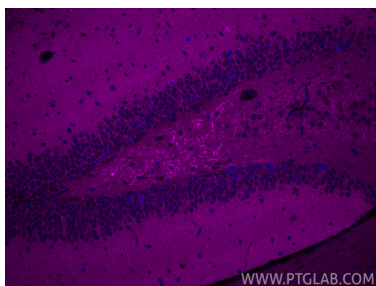
T: 4006900926

E: Proteintech-CN@ptglab.com

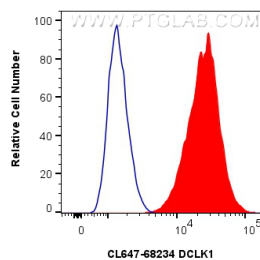
W: ptgcn.com

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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using Coralite® Plus 647 DCLK1 antibody (CL647-68234, Clone: 3C12C1) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ Neuro-2a cells were intracellularly stained with 0.4 ug Coralite® Plus 647-conjugated DCLK1 Monoclonal antibody (CL647-68234, Clone:3C12C1)(red), or 0.4 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).