

For Research Use Only

# CoraLite® Plus 488-conjugated DCLK1 Monoclonal antibody



Catalog Number: **CL488-68234**

## Basic Information

<b>Catalog Number:</b> CL488-68234	<b>GenBank Accession Number:</b> BC152456	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9201	<b>CloneNo.:</b> 3C12C1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O15075	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> doublecortin-like kinase 1	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG17110	<b>Calculated MW:</b> 729 aa, 81 kDa	
	<b>Observed MW:</b> 46 kDa, 82 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF-P : mouse brain tissue,
<b>Species Specificity:</b> Human, mouse, rat, rabbit, pig	

## 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.

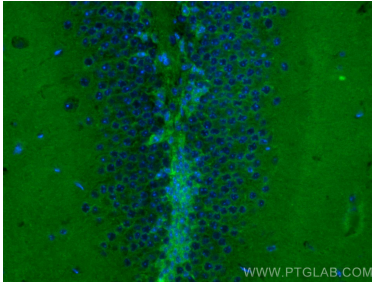
## Storage

**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, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® Plus 488 DCCLK1 antibody (CL488-68234, Clone: 3C12C1 ) at dilution of 1:200.