

## Product datasheet

### Anti-CDK5RAP2 antibody ab86340

★★★★★ [1 Abreviews](#) [7 References](#) [2 Images](#)

#### Overview

Product name	Anti-CDK5RAP2 antibody
Description	Rabbit polyclonal to CDK5RAP2
Host species	Rabbit
Tested applications	<b>Suitable for:</b> ICC/IF
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide corresponding to a region between residues 1843 and the C-terminus (residue 1893) of Human CDK5RAP2 (NP_060719.4)
Positive control	HeLa cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 6.8</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.1% BSA, Tris buffered saline</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

#### Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab86340 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		

#### Application notes

ICC/IF: 1/100 - 1/500. Fix with formaldehyde or methanol. Do not fix with acetone.  
Permeabilization with Triton-X 100 recommended.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

#### Target

##### Function

Potential regulator of CDK5 activity via its interaction with CDK5R1. Negative regulator of centriole disengagement (licensing) which maintains centriole engagement and cohesion. Involved in regulation of mitotic spindle orientation (By similarity). Plays a role in the spindle checkpoint activation by acting as a transcriptional regulator of both BUBR1 and MAD2 promoter. Together with MAPRE1, it may promote microtubule polymerization, bundle formation, growth and dynamics at the plus ends.

##### Tissue specificity

Widely expressed. Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

##### Involvement in disease

Defects in CDK5RAP2 are the cause of microcephaly primary type 3 (MCPH3) [MIM:604804]. A disorder defined as a head circumference more than 3 standard deviations below the age-related mean. Brain weight is markedly reduced and the cerebral cortex is disproportionately small. Despite this marked reduction in size, the gyral pattern is relatively well preserved, with no major abnormality in cortical architecture. Primary microcephaly is further defined by the absence of other syndromic features or significant neurological deficits.

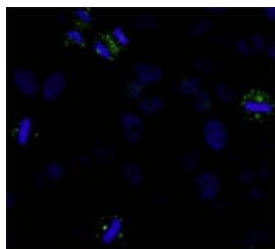
##### Post-translational modifications

Phosphorylated in vitro by CDK5.

##### Cellular localization

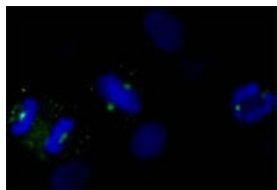
Cytoplasm > cytoskeleton > centrosome. Golgi apparatus. Cytoplasm. Found in the pericentriolar region adhering to the surface of the centrosome and in the region of the centrosomal appendages. Localizes to microtubule plus ends.

#### Images



ab86340 at 1/250 dilution staining CDK5RAP2 in NBF-fixed asynchronous HeLa cells by immunofluorescence.  
Detection: Anti-rabbit IgG-FITC conjugated used at a dilution of 1/100.

Immunocytochemistry/ Immunofluorescence - Anti-  
CDK5RAP2 antibody (ab86340)



Immunocytochemistry/ Immunofluorescence - Anti-CDK5RAP2 antibody (ab86340)

ab86340 at 1/250 dilution staining CDK5RAP2 in NBF-fixed asynchronous HeLa cells by Immunofluorescence.  
Detection: Anti-rabbit IgG-FITC conjugated used at a dilution of 1/100.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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