

For Research Use Only

# CIT Polyclonal antibody

Catalog Number: 20033-1-AP

4 Publications



## Basic Information

### Catalog Number:

20033-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_007174

### GeneID (NCBI):

11113

### UNIPROT ID:

O14578

### Full Name:

citron (rho-interacting, serine/threonine kinase 21)

### Calculated MW:

231 kDa

### Observed MW:

230 kDa, 177 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : A431 cells, HeLa cells, mouse brain tissue, rat brain tissue

IHC : mouse brain tissue,

IF/ICC : HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

CIT, also named KIAA0949, STK21 and CRIK, belongs to the protein kinase superfamily and AGC Ser/Thr protein kinase family. It is required for KIF14 localization to the central spindle and midbody. CIT may play a role in cytokinesis. Putative RHO/RAC effector that binds to the GTP-bound forms of RHO and RAC1. It probably binds p21 with a tighter specificity in vivo. CIT plays an important role in the regulation of cytokinesis and the development of the central nervous system. The antibody recognizes all the isoforms of CIT.

## Notable Publications

Author	Pubmed ID	Journal	Application
Federica Morani	33800494	Int J Mol Sci	WB
Kelsey L Swartz	27795297	Mol Cell Biol	WB
Ranran Kong	38880190	Toxicol Appl Pharmacol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

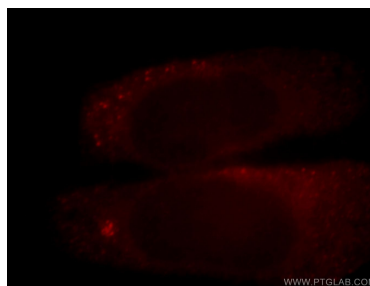
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

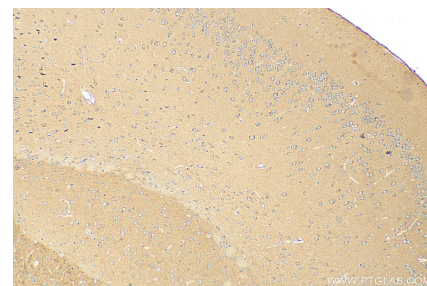
## Selected Validation Data



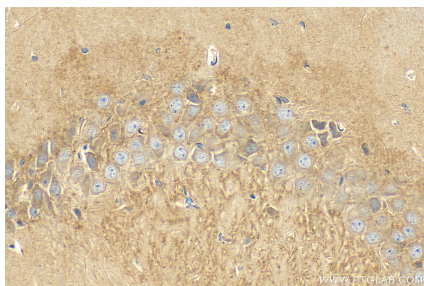
A431 cells were subjected to SDS PAGE followed by western blot with 20033-1-AP (CIT antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



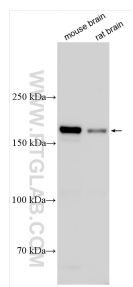
Immunofluorescent analysis of HepG2 cells, using CIT antibody 20033-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20033-1-AP (CIT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20033-1-AP (CIT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 20033-1-AP (CIT antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.