For Research Use Only

CIT Polyclonal antibody

Catalog Number:20033-1-AP 4 Publications

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Basic Information

Catalog Number:
20033-1-AP

Size:
600 μg/ml

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:
IF/ICC, IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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

Positive Controls:

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

IHC : mouse brain tissue,

IF/ICC : HepG2 cells,

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

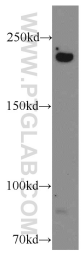
Author	Pubmed ID	Journal	Application
Federica Morani	33800494	Int J Mol Sci	WB
Kelsey L Swartz	27795297	Mol Cell Biol	WB
Ranran Kong	38880190	Toxicol Appl Pharmacol	WB

Storage

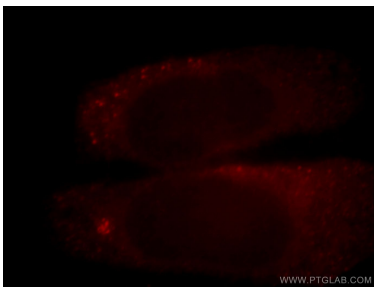
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

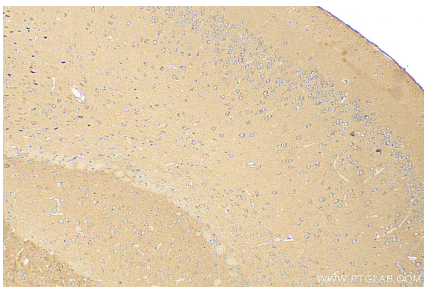
Selected Validation Data



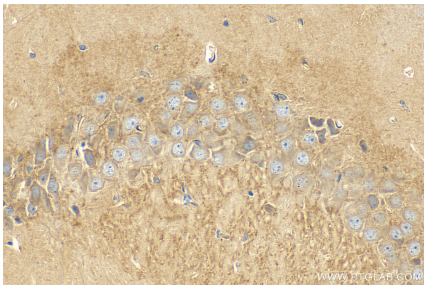
A431 cells were subjected to SDS PAGE followed by western blot with 20033-1-AP (CIT antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



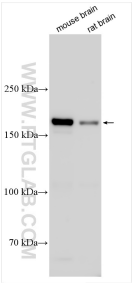
Immunofluorescent analysis of HepG2 cells, using CIT antibody 20033-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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.