

For Research Use Only

PACSIN1 Polyclonal antibody

Catalog Number: 13219-1-AP

2 Publications



Basic Information

Catalog Number:

13219-1-AP

Size:

850 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4102

GenBank Accession Number:

BC040228

GeneID (NCBI):

29993

UNIPROT ID:

Q9BY11

Full Name:

protein kinase C and casein kinase substrate in neurons 1

Calculated MW:

444 aa, 51 kDa

Observed MW:

48-51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse cerebellum tissue, mouse brain tissue

IHC : human brain tissue,

IF/ICC : SH-SY5Y 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

PACSIN1 (also known as syndapin-1) is a member of the protein kinase C and casein kinase substrate in neurons (PACSIN) family. In mammals, the PACSIN family is comprised of three members, PACSIN1, PACSIN2, and PACSIN3 (PMID: 34990060). PACSIN1 is expressed mainly in neurons, whereas PACSIN2 is ubiquitously expressed in all tissues, and PACSIN3 is expressed mainly in skeletal muscle and the heart (PMID: 23668323). All of these three members contain an N-terminal F-BAR domain and a C-terminal SH3 domain. PACSIN1 plays a role in endocytosis and endosomal recycling. Meanwhile, it has a role in actin remodeling and microtubule nucleation and also plays a particular role in membrane shaping and reconstruction (PMID: 23035120; 34422904). PACSIN1 is involved in neuromorphogenesis and the regulation of the nervous system, and the inappropriate expression of PACSIN1 has been associated with some neurological diseases, including schizophrenia, Alzheimer's disease, and Huntington's disease (PMID: 34990060).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhou Zimu	34422904	Front Mol Biosci	IHC
Shaoran Shen	39379099	Aging (Albany NY)	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:

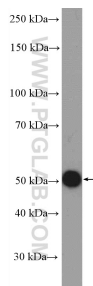
T: 4006900926

E: Proteintech-CN@ptglab.com

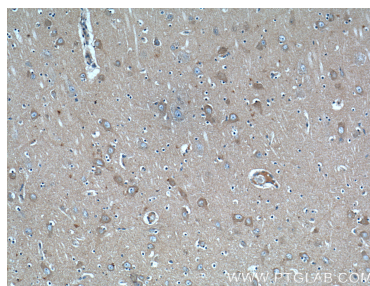
W: ptgcn.com

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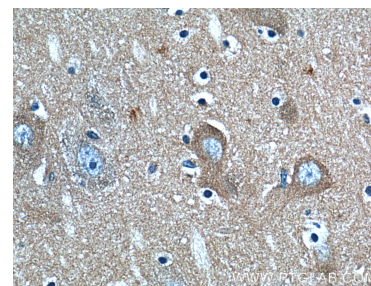
Selected Validation Data



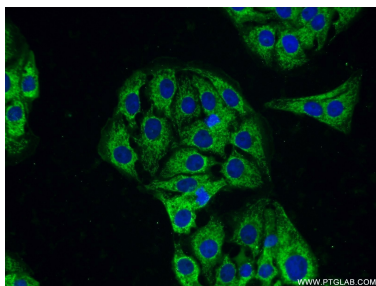
mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 13219-1-AP (PACSIN1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 13219-1-AP (PACSIN1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 13219-1-AP (PACSIN1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of SH-SY5Y cells using 13219-1-AP (PACSIN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).