

For Research Use Only

PACSIN1 Polyclonal antibody

Catalog Number: 13219-1-AP **1 Publications**



Basic Information

Catalog Number: 13219-1-AP	GenBank Accession Number: BC040228	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 850 µg/ml by Nanodrop and 393 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 29993	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: protein kinase C and casein kinase substrate in neurons 1	
Isotype: IgG	Calculated MW: 444 aa, 51 kDa	
Immunogen Catalog Number: AG4102	Observed MW: 48-51 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : mouse cerebellum tissue, mouse brain tissue
Cited Applications: IHC	IHC : human brain tissue,
Species Specificity: human, mouse, rat	IF : SH-SY5Y cells,
Cited Species: human	

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

Storage

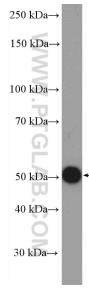
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

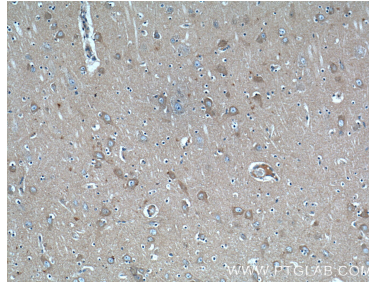
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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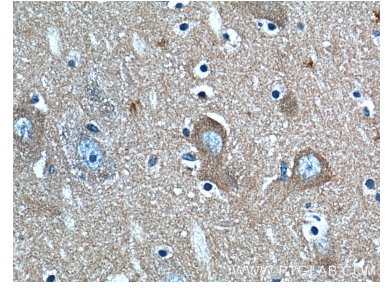
Selected Validation Data



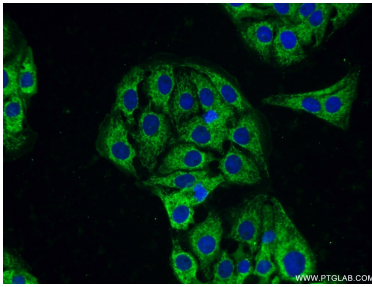
mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 13219-1-AP (PACSIN1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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 AffiniPure Goat Anti-Rabbit IgG(H+L).