For Research Use Only

Calsyntenin-1 Polyclonal antibody

Catalog Number:12788-1-AP 6 Publications

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Basic Information

Catalog Number:
12788-1-AP

Size:
150ul , Concentration: 1000 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3504

GenBank Accession Number:
BC033902

GeneID (NCBI):
22883

Full Name:
calsyntenin 1

Calculated MW:
109 kDa

Observed MW:
109-130 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2400
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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 : human brain tissue,

IP : mouse brain tissue,

IHC : mouse brain tissue,

Background Information

Calsyntenins (calsyntenin-1, -2, -3) compose a family of neuronally expressed proteins that belong to the cadherin superfamily of cell adhesion molecules (PMID: 24966372; 12498782). Calsyntenin-1 (CLSTN1) is a proteolytically processed postsynaptic membrane protein with a cytoplasmic calcium-binding domain. By binding Ca2+, calsyntenin-1 may modulate Ca2+-mediated postsynaptic signals (PMID: 11161476). Calsyntenin-1 is a transmembrane cargo-docking protein for Kinesin-1-mediated vesicular transport (PMID: 16760430). It can mediate axonal transport of the amyloid precursor protein and regulate Aβ production (PMID: 22434822).

Notable Publications

Author	Pubmed ID	Journal	Application
Mingxiang Zhu	36350487	Cardiovasc Drugs Ther	WB,IHC
Yi-Yuan Sun	32509569	Front Oncol	WB
Chengguo Li	38114495	Cell Death Discov	WB

Storage

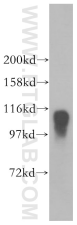
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

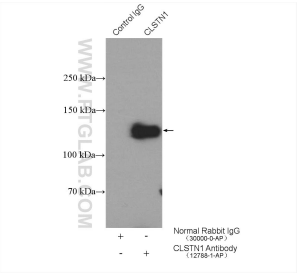
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

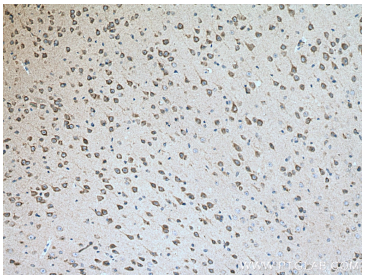
Selected Validation Data



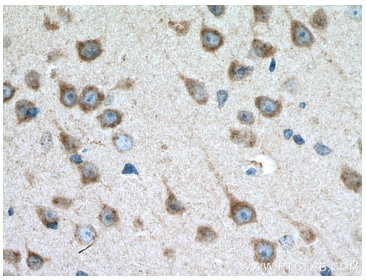
human brain tissue were subjected to SDS PAGE followed by western blot with 12788-1-AP (Calsyntenin-1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



IP Result of anti-CLSTN1 (IP:12788-1-AP, 4ug; Detection:12788-1-AP 1:300) with mouse brain tissue lysate 5600ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12788-1-AP (Calsyntenin-1 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 12788-1-AP (Calsyntenin-1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).