

For Research Use Only

# Calsyntenin-1 Polyclonal antibody

Catalog Number: 12788-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 12788-1-AP	<b>GenBank Accession Number:</b> BC033902	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 22883	<b>Recommended Dilutions:</b> WB 1:500-1:2400 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O94985	
<b>Isotype:</b> IgG	<b>Full Name:</b> calsyntenin 1	
<b>Immunogen Catalog Number:</b> AG3504	<b>Calculated MW:</b> 109 kDa	
	<b>Observed MW:</b> 109-130 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : human brain tissue, IP : mouse brain tissue, IHC : mouse brain tissue,
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 Ca<sup>2+</sup>, calsyntenin-1 may modulate Ca<sup>2+</sup>-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 A $\beta$  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

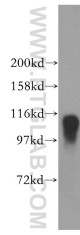
## Storage

**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

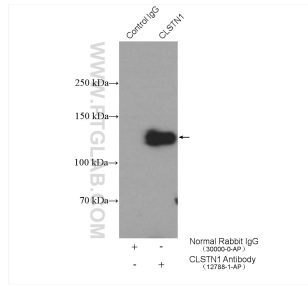
For technical support and original validation data for this product please contact:  
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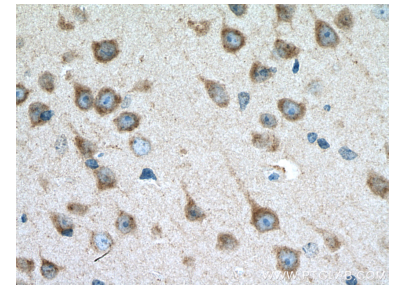
## Selected Validation Data



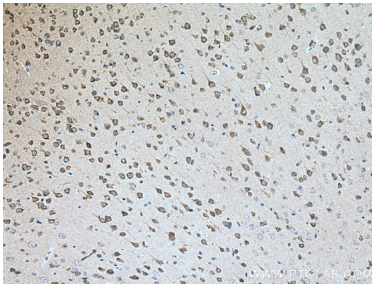
human brain tissue were subjected to SDS PAGE followed by western blot with 12788-1-AP (Calsyntenin-1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



IP result of anti-Calsyntenin-1 (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 40x 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 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).