

**Syndapin I / PACSIN1 Antibody**  
**Goat Polyclonal Antibody**  
**Catalog # ALS14548****Specification**

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**Syndapin I / PACSIN1 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q9BY11</a>
Reactivity	Human, Pig
Host	Goat
Clonality	Polyclonal
Calculated MW	51kDa KDa

**Syndapin I / PACSIN1 Antibody - Additional Information****Gene ID** 29993**Other Names**

Protein kinase C and casein kinase substrate in neurons protein 1, Syndapin-1, PACSIN1, KIAA1379

**Target/Specificity**

Human PACSIN1. Reported variants represent identical protein (NP\_065855.1; NP\_001186512.1).

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

Syndapin I / PACSIN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Syndapin I / PACSIN1 Antibody - Protein Information****Name** PACSIN1**Synonyms** KIAA1379**Function**

Plays a role in the reorganization of the microtubule cytoskeleton via its interaction with MAPT; this decreases microtubule stability and inhibits MAPT-induced microtubule polymerization. Plays a role in cellular transport processes by recruiting DNM1, DNM2 and DNM3 to membranes. Plays a role in the reorganization of the actin cytoskeleton and in neuron morphogenesis via its interaction with COBL and WASL, and by recruiting COBL to the cell cortex. Plays a role in the regulation of neurite formation, neurite branching and the regulation of neurite length. Required for normal synaptic vesicle endocytosis; this process retrieves previously released neurotransmitters to accommodate multiple cycles of neurotransmission. Required for normal excitatory and inhibitory synaptic transmission (By similarity). Binds to membranes via its F-BAR domain and mediates membrane tubulation.

**Cellular Location**

Cytoplasm. Cell projection. Synapse, synaptosome. Cell projection, ruffle membrane. Membrane; Peripheral membrane protein Cytoplasmic vesicle membrane; Peripheral membrane protein. Synapse. Cytoplasm, cytosol Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Colocalizes with MAPT in axons. In primary neuronal cultures, present at a high level in presynaptic nerve terminals and in the cell body. Colocalizes with DNM1 at vesicular structures in the cell body and neurites (By similarity). Associates with membranes via its F-BAR domain.

**Tissue Location**

Highly expressed in brain and, at much lower levels, in heart and pancreas.

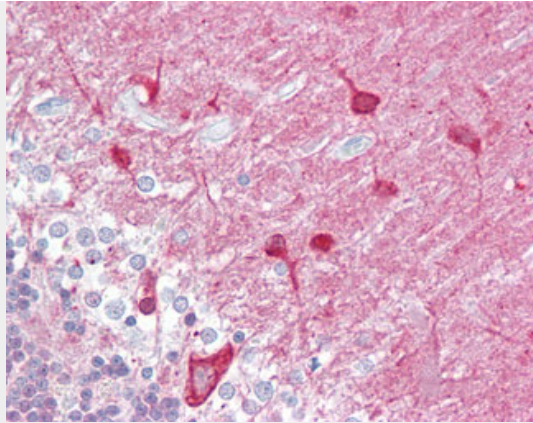
**Syndapin I / PACSIN1 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

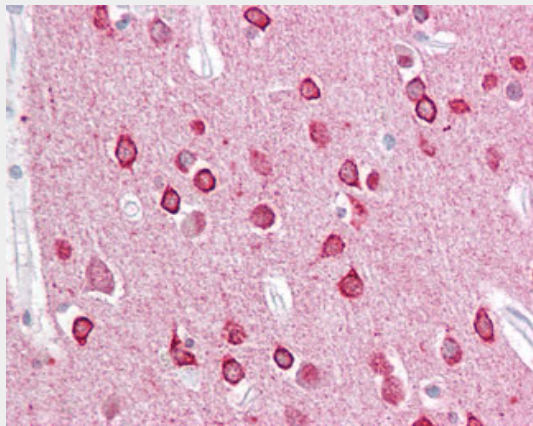
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Syndapin I / PACSIN1 Antibody - Images**

PACSIN1 antibody (1 ug/ml) staining of Human Brain (hippocampus) lysate (35 ug protein/ml in...



Anti-PACSIN1 antibody IHC of human brain, cerebellum.



Anti-PACSIN1 antibody IHC of human brain, cortex.

### **Syndapin I / PACSIN1 Antibody - Background**

Plays a role in the reorganization of the microtubule cytoskeleton via its interaction with MAPT; this decreases microtubule stability and inhibits MAPT-induced microtubule polymerization. Plays a role in cellular transport processes by recruiting DNM1, DNM2 and DNM3 to membranes. Plays a role in the reorganization of the actin cytoskeleton and in neuron morphogenesis via its interaction with COBL and WASL, and by recruiting COBL to the cell cortex. Plays a role in the regulation of neurite formation, neurite branching and the regulation of neurite length. Required for normal synaptic vesicle endocytosis; this process retrieves previously released neurotransmitters to accommodate multiple cycles of neurotransmission. Required for normal excitatory and inhibitory synaptic transmission (By similarity). Binds to membranes via its F-BAR domain and mediates membrane tubulation.

### **Syndapin I / PACSIN1 Antibody - References**

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Nagase T.,et al.DNA Res. 7:65-73(2000).  
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Bechtel S.,et al.BMC Genomics 8:399-399(2007).  
Goh S.L.,et al.PLoS ONE 7:E51628-E51628(2012).