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Goat Anti-PACSIN1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1774a

Specification

Goat Anti-PACSIN1 Antibody - Product Information

Application	**WB, IHC, E**
Primary Accession	Q9BY11
Other Accession	NP_065855, 29993
Reactivity	**Human**
Predicted	**Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**50966**

Goat Anti-PACSIN1 Antibody - Additional Information

Gene ID 29993

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

Dilution
WB~~1:1000
IHC~~1:100~500
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-PACSIN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-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.

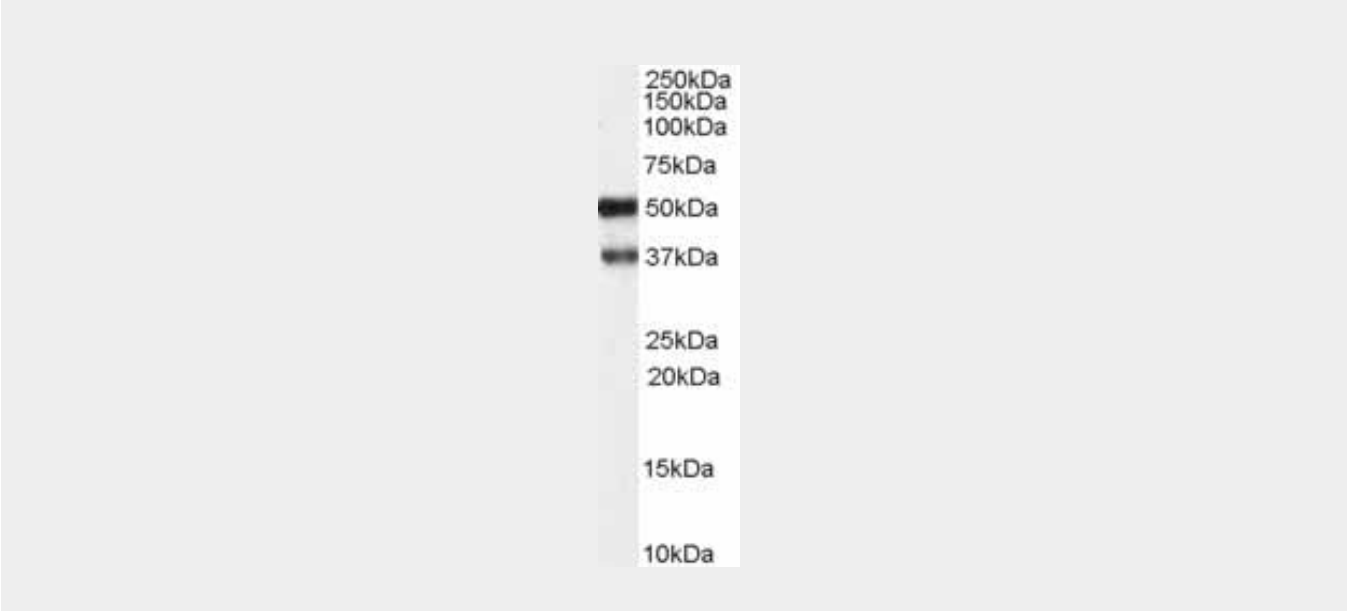
Tissue Location
Highly expressed in brain and, at much lower levels, in heart and pancreas.

Goat Anti-PACSIN1 Antibody - Protocols

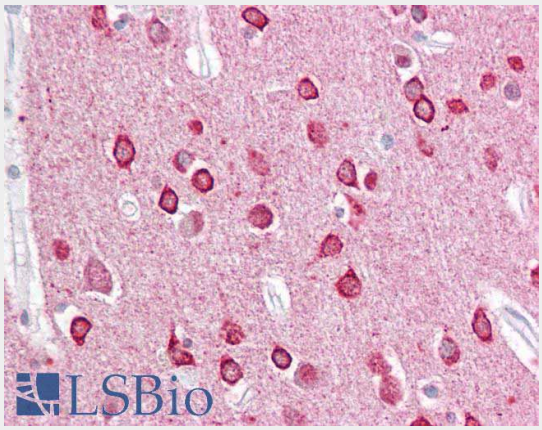
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

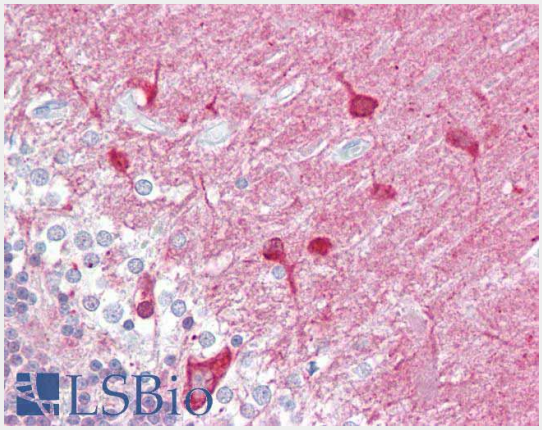
Goat Anti-PACSIN1 Antibody - Images



AF1774a (1 µg/ml) staining of Hippocampus) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1774a (2.5 µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1774a (2.5 µg/ml) staining of paraffin embedded Human Cer. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-PACSIN1 Antibody - References

Crystallization and preliminary X-ray crystallographic analysis of human PACSIN 1 protein. Bai X, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2010 Jan 1. PMID 20057076.
Molecular mechanism of membrane constriction and tubulation mediated by the F-BAR protein Pacsin/Syndapin. Wang Q, et al. Proc Natl Acad Sci U S A, 2009 Aug 4. PMID 19549836.
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Replication of a genome-wide case-control study of esophageal squamous cell carcinoma. Ng D, et al. Int J Cancer, 2008 Oct 1. PMID 18649358.
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