10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PACSIN2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5026

Product Information

Application	WB, IF, IHC-P
Primary Accession	Q9UNF0
Reactivity	Human, Rat
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55739
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	11252
Antigen Region	342-371
Other Names	PACSIN2; Protein kinase C and casein kinase substrate in neurons protein 2
Dilution	WB~~1:1000 IF~~1:100 IHC-P~~1:100~500
Target/Specificity	This PACSIN2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 342-371 amino acids from the C-terminal region of human PACSIN2.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PACSIN2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PACSIN2
Function	Regulates the morphogenesis and endocytosis of caveolae (By similarity). Lipid-binding protein that is able to promote the tubulation of the phosphatidic acid-containing membranes it preferentially binds. Plays a role

	in intracellular vesicle-mediated transport. Involved in the endocytosis of cell-surface receptors like the EGF receptor, contributing to its internalization in the absence of EGF stimulus (PubMed:21693584, PubMed:23129763, PubMed:23236520, PubMed:23596323). Essential for endothelial organization in sprouting angiogenesis, modulates CDH5-based junctions. Facilitates endothelial front-rear polarity during migration by recruiting EHD4 and MICALL1 to asymmetric adherens junctions between leader and follower cells (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q9WVE8}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9WVE8}. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q9WVE8}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9WVE8}; Cytoplasmic side {ECO:0000250|UniProtKB:Q9WVE8}. Cell projection, ruffle membrane {ECO:0000250|UniProtKB:Q9WVE8}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9WVE8}; Cytoplasmic side {ECO:0000250|UniProtKB:Q9WVE8}. Early endosome {ECO:0000250|UniProtKB:Q9WVE8}. Recycling endosome membrane. Cell membrane {ECO:0000250|UniProtKB:Q9WVE8}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9WVE8}; Cytoplasmic side {ECO:0000250|UniProtKB:Q9WVE8}. Cell projection. Membrane, caveola. Cell junction, adherens junction {ECO:0000250|UniProtKB:Q9WVE8}. Note=Detected at the neck of flask- shaped caveolae. Localization to tubular recycling endosomes probably requires interaction with MICALL1 and EHD1 {ECO:0000250|UniProtKB:Q9WVE8}
Tissue Location	Widely expressed.

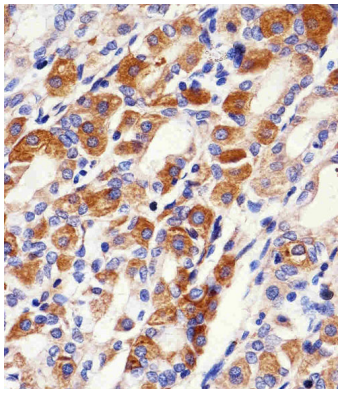
Background

PACSIN may play a role in vesicle formation and transport. This protein homo- and hetero-aggregates with other PACSINs. It also binds dynamin 1, synaptojanin, synapsin 1 and the neural Wiskott-Aldrich syndrome protein (N-WASP). The protein exhibits a cvesicle-like cytoplasmic distribution and is ubiquitously expressed. PACSIN is phosphorylated by casein kinase 2 (CK2) and protein kinase C (PKC). The protein contains 1 FCH domain and 1 SH3 domain.

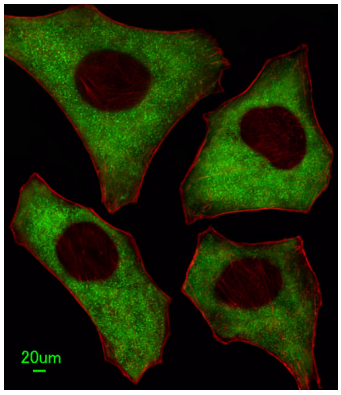
References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Wiemann, S., et al., Genome Res. 11(3):422-435 (2001). Ritter, B., et al., FEBS Lett. 454(3):356-362 (1999). Dunham, I., et al., Nature 402(6761):489-495 (1999).

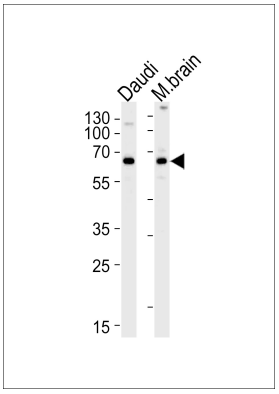
Images



Immunohistochemical analysis of paraffin-embedded H.stomach section using PACSIN2 Antibody (C-term)(Cat#AW5026). AW5026 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunofluorescent analysis of Hela cells, using PACSIN2 Antibody (C-term) (Cat. #AW5026). AW5026 was diluted at 1:100 dilution. Alexa Fluor® 488-conjugated goat anti-rabbit lgG at 1:400 dilution was used as the secondary antibody (green).Cytoplasmic actin was counterstained with Dylight Fluor® 554 (red) conjugated Phalloidin (red).



PACSIN2 Antibody (S357) (Cat. #AW5026) western blot analysis in Daudi cell line and mouse brain lysates (35ug/lane).This demonstrates the PACSIN2 antibody detected the PACSIN2 protein (arrow).

Citations

- Application of a proteins translocated into host cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.