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PACSIN2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8088c

Specification

PACSIN2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9UNF0

PACSIN2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 11252

Other Names
Protein kinase C and casein kinase substrate in neurons protein 2, Syndapin-2, Syndapin-II, PACSIN2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8088c was selected from the Center region of human PACSIN2 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PACSIN2 Antibody (Center) Blocking Peptide - 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.

PACSIN2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PACSIN2 Antibody (Center) Blocking Peptide - Images

PACSIN2 Antibody (Center) Blocking Peptide - 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.

PACSIN2 Antibody (Center) Blocking Peptide - 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).