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PACSIN2 Rabbit pAb

Catalog # AP99732

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9UNF0
Other Accession	Q9UNF0
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55739
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PACSIN2
Epitope Specificity	331-430/486
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PACSIN family. Contains 1 FCH domain. Contains 1 SH3 domain.
SUBUNIT	Homodimer. May form heterooligomers with other PACSINs.Interacts (via NPF motifs) with EHD1 (via EH domain). Interacts with EHD3. Interacts (via the SH3 domain) with MICALL1. Interacts with RAC1. Interacts (via SH3 domain) with DNM1, SYN1, SYNJ1 and WASL. Interacts with CAV1. Interacts with TRPV4.
Post-translational modifications	Phosphorylated by casein kinase 2 (CK2) and protein kinase C (PKC).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the protein kinase C and casein kinase substrate in neurons family. The encoded protein is involved in linking the actin cytoskeleton with vesicle formation by regulating tubulin polymerization. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Additional Information

Gene ID	11252
Other Names	SDPII; PACN2_HUMAN; PACSIN2; Syndapin-2; Syndapin-II (SdpII); PACN2_MOUSE; protein kinase C and casein kinase substrate in neurons 2; syndapin II
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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