

PACSIN1 (K-17): sc-10412

BACKGROUND

PACSINs are members of a family of cytoplasmic adapter proteins, which share a conserved C-terminal protein binding SH3 domain and a CDC15-NT domain. PACSIN1-related proteins include syndapin 1 (the rat homolog of PACSIN1), FAP52, EM13, and PSTPIP, all of which seem to be involved in signaling pathways associated with cytoskeletal organization. PACSIN1 expression is restricted to terminally differentiated neural tissue, whereas PACSIN2 is widely expressed. PACSIN2 shows vesicle-like distribution and may be involved in regulating endocytotic processes.

REFERENCES

1. Froesch, P.M., et al. 1993. Molecular cloning of an echinococcal microtrichial antigen immunoreactive in *Echinococcus multilocularis* disease. Mol. Biochem. Parasitol. 58: 301-310.
2. Merilainen, J., et al. 1997. FAP52, a novel, SH3 domain-containing focal adhesion protein. J. Biol. Chem. 272: 23278-23284.

CHROMOSOMAL LOCATION

Genetic locus: PACSIN1 (human) mapping to 6p21.31; Pacsin1 (mouse) mapping to 17 A3.3.

SOURCE

PACSIN1 (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PACSIN1 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-10412 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

PACSIN1 (K-17) is recommended for detection of PACSIN1 of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PACSIN1 siRNA (h): sc-36171, PACSIN1 siRNA (m): sc-36172, PACSIN1 shRNA Plasmid (h): sc-36171-SH, PACSIN1 shRNA Plasmid (m): sc-36172-SH, PACSIN1 shRNA (h) Lentiviral Particles: sc-36171-V and PACSIN1 shRNA (m) Lentiviral Particles: sc-36172-V.

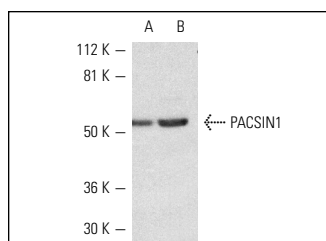
Molecular Weight of PACSIN1: 52 kDa.

Positive Controls: rat cerebellum extract: sc-2398, mouse brain extract: sc-2253 or PACSIN1 (h): 293T Lysate: sc-114474.

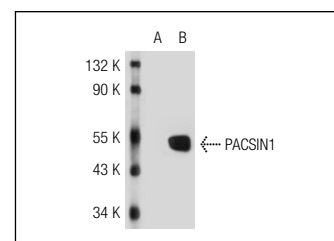
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PACSIN1 (K-17): sc-10412. Western blot analysis of PACSIN1 expression in rat cerebellum (A) and mouse brain (B) extracts.



PACSIN1 (K-17): sc-10412. Western blot analysis of PACSIN1 expression in non-transfected: sc-117752 (A) and human PACSIN1 transfected: sc-114474 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Roach, W., et al. 2007. PACSIN3 overexpression increases adipocyte glucose transport through Glut1. Biochem. Biophys. Res. Commun. 355: 745-750.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **PACSIN1 (A-3): sc-166756** or **PACSIN1 (32): sc-136373**, our highly recommended monoclonal alternatives to PACSIN1 (K-17).