SANTA CRUZ BIOTECHNOLOGY, INC.

PACSIN1 (M-46): sc-30127

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. PACSIN 1-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 PACSIN 2 is widely expressed. PACSIN2 shows vesicle-like distribution and may be involved in regulating endocytotic processes.

REFERENCES

1. Frosch, P.M., et al. 1993. Molecular cloning of an echinococcal microtrichal 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 (M-46) is a rabbit polyclonal antibody raised against amino acids 301-346 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.

APPLICATIONS

PACSIN1 (M-46) is recommended for detection of PACSIN1 of mouse, rat and 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PACSIN1 (M-46) is also recommended for detection of PACSIN1 in additional species, including equine, canine and bovine.

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.

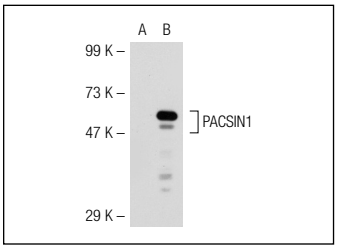
Molecular Weight of PACSIN1: 52 kDa.

Positive Controls: rat cerebellum extract: sc-2398, PACSIN1 (m): 293T Lysate: sc-122348 or mouse brain extract: sc-2253.

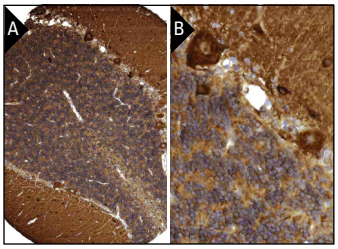
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



PACSIN1 (M-46): sc-30127. Western blot analysis of PACSIN1 expression in non-transfected: sc-117752 (**A**) and mouse PACSIN1 transfected: sc-122348 (**B**) 293T whole cell lysates.



PACSIN1 (M-46): sc-30127. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebellum tissue showing cytoplasmic staining of cells in molecular and granular layers and Purkinje cells at low (**A**) and high (**B**) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

STORAGE

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

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.