

PACSIN3 (H-100): sc-99128

BACKGROUND

PACSINs are a family of cytoplasm-resident phosphoproteins that aid in vesicle formation and transport. It is presumed that all isoforms oligomerize and bind Dynamin, Synaptojanin 1 and N-WASP through their Src homology 3 domains. Furthermore, PACSINs co-localize with Dynamin, but not with Clathrin, indicating that the proteins may play a specific role with a defined population of Dynamin at distinct cellular locations. PACSIN3 (protein kinase C and casein kinase substrate in neurons 3) contains a short proline-rich region and lacks asparagine-proline-phenylalanine motifs, which differentiates it from the rest of the PACSIN family. Sequence analysis of cDNAs encoding mouse and human PACSIN3 predict that the human protein consists of 424 amino acids and is 94% identical to the mouse protein. Studies of the mouse protein report predominant expression in mouse lung, skeletal muscle, and heart as well as in brain, kidney and uterus.

REFERENCES

1. Modregger, J., et al. 2001. All three PACSIN isoforms bind to endocytic proteins and inhibit endocytosis. *J. Cell Sci.* 113: 4511-4521.
2. Sumoy, L., et al. 2001. PACSIN3 is a novel SH3 domain cytoplasmic adapter protein of the PACSIN-Syndapin-F gene family. *Gene* 262: 199-205.

CHROMOSOMAL LOCATION

Genetic locus: PACSIN3 (human) mapping to 11p11.2; Pascin3 (mouse) mapping to 2 E1.

SOURCE

PACSIN3 (H-100) is a rabbit polyclonal antibody raised against amino acids 151-250 mapping within an internal region of PACSIN3 of human origin.

PRODUCT

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

APPLICATIONS

PACSIN3 (H-100) is recommended for detection of PACSIN3 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PACSIN3 (H-100) is also recommended for detection of PACSIN3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PACSIN3 siRNA (h): sc-61279, PACSIN3 siRNA (m): sc-61280, PACSIN3 shRNA Plasmid (h): sc-61279-SH, PACSIN3 shRNA Plasmid (m): sc-61280-SH, PACSIN3 shRNA (h) Lentiviral Particles: sc-61279-V and PACSIN3 shRNA (m) Lentiviral Particles: sc-61280-V.

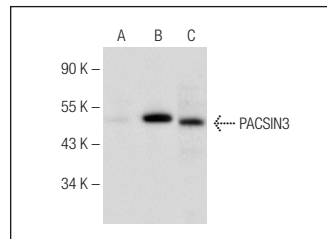
Molecular Weight of PACSIN3: 48 kDa.

Positive Controls: PACSIN3 (m): 293T Lysate: sc-127289 or HeLa whole cell lysate: sc-2200 or NCI-H460 whole cell lysate: sc-364235.

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.

DATA



PACSIN3 (H-100): sc-99128. Western blot analysis of PACSIN3 expression in non-transfected 293T: sc-117752 (A), mouse PACSIN3 transfected 293T: sc-127289 (B) and HeLa (C) whole cell lysates.

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.

MONOS
Satisfaction
Guaranteed

Try **PACSIN3 (F-8): sc-373952** or **PACSIN3 (C-3): sc-166923**, our highly recommended monoclonal alternatives to PACSIN3 (H-100).