SANTA CRUZ BIOTECHNOLOGY, INC.

PACSIN2 (K-16): sc-10415

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 PACSIN 1), FAP52, EM13, and PSTPIP, all of which seem to be involved in signaling pathways associated with cytoskeletal organization. PACSIN 1 expression is restricted to terminally differentiated neural tissue, whereas PACSIN 2 is widely expressed. PACSIN 2 shows vesicle-like distribution and may be involved in regulating endocytotic processes.

REFERENCES

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2. Merilainen, J., Lehto, V.P. and Wasenius, V.M. 1997. FAP52, a novel, SH3 domain-containing focal adhesion protein. J. Biol. Chem. 272: 23278-23284.
3. Wu, Y., Spencer, S.D. and Lasky, L.A. 1998. Tyrosine phosphorylation regulates the SH3-mediated binding of the Wiskott-Aldrich syndrome protein to PSTPIP, a cytoskeletal-associated protein. J. Biol. Chem. 273: 5765-5770.
4. Plomann, M., Lange, R., Vopper, G., Cremer, H., Heinlein, U.A., Scheff, S., Baldwin, S.A., et al. 1998. PACSIN, a brain protein that is upregulated upon differentiation into neuronal cells. Eur. J. Biochem. 256: 201-211.
5. Ritter, B., Modregger, J., Paulsson, M. and Plomann, M. 1999. PACSIN 2, a novel member of the PACSIN family of cytoplasmic adapter proteins. FEBS Letts. 454: 356-362.
6. Qualmann, B., Roos, J., DiGregorio, P.J. and Kelly, R.B. 1999. Syndapin I, a synaptic dynamin-binding protein that associates with the neural Wiskott-Aldrich syndrome protein. Mol. Biol. Cell. 10: 501-513.

SOURCE

PACSIN2 (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PACSIN2 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-10415 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.

PROTOCOLS

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

APPLICATIONS

PACSIN2 (K-16) is recommended for detection of PACSIN2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 PACSIN2 siRNA (h): sc-36173, PACSIN2 siRNA (m): sc-36174, PACSIN2 shRNA Plasmid (h): sc-36173-SH, PACSIN2 shRNA Plasmid (m): sc-36174-SH, PACSIN2 shRNA (h) Lentiviral Particles: sc-36173-V and PACSIN2 shRNA (m) Lentiviral Particles: sc-36174-V.

Molecular Weight of PACSIN2: 60 kDa.

Positive Controls: mouse lung extract: sc-2390 or NIH/3T3 whole cell lysate: sc-2210.

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) 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.

RESEARCH USE

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