

# PACSIN2 (F-12): sc-390136

## 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. Frosch, P.M., et al. 1993. Molecular cloning of an echinococcal microtrichial antigen immunoreactive in Echino-coccus 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.
3. Wu, Y., et al. 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., et al. 1998. PACSIN, a brain protein that is upregulated upon differentiation into neuronal cells. *Eur. J. Biochem.* 256: 201-211.
5. Ritter, B., et al. 1999. PACSIN2, a novel member of the PACSIN family of cytoplasmic adapter proteins. *FEBS Lett.* 454: 356-362.
6. Qualmann, B., et al. 1999. Syndapin 1, a synaptic Dynamin-binding protein that associates with the neural Wiskott-Aldrich syndrome protein. *Mol. Biol. Cell* 10: 501-513.

## CHROMOSOMAL LOCATION

Genetic locus: PACSIN2 (human) mapping to 22q13.2; Pacsin2 (mouse) mapping to 15 E1.

## SOURCE

PACSIN2 (F-12) is a mouse monoclonal antibody raised against amino acids 171-316 mapping within an internal region of PACSIN2 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PACSIN2 (F-12) is available conjugated to agarose (sc-390136 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390136 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390136 PE), fluorescein (sc-390136 FITC), Alexa Fluor® 488 (sc-390136 AF488), Alexa Fluor® 546 (sc-390136 AF546), Alexa Fluor® 594 (sc-390136 AF594) or Alexa Fluor® 647 (sc-390136 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390136 AF680) or Alexa Fluor® 790 (sc-390136 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## RESEARCH USE

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

## APPLICATIONS

PACSIN2 (F-12) is recommended for detection of PACSIN2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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 (predicted) of PACSIN2 isoform 1/2: 56/51 kDa.

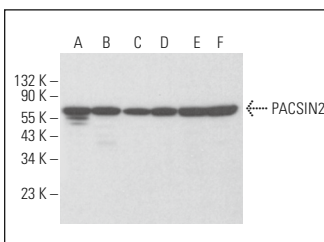
Molecular Weight (observed) of PACSIN2: 65 kDa.

Positive Controls: T-47D cell lysate: sc-2293, NTERA-2 cl.D1 whole cell lysate: sc-364181 or SK-MEL-24 whole cell lysate: sc-364259.

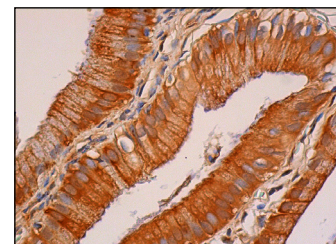
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



PACSIN2 (F-12): sc-390136. Western blot analysis of PACSIN2 expression in T-47D (A), NTERA-2 cl.D1 (B), SK-MEL-24 (C), SJRH30 (D), Hep G2 (E) and A549 (F) whole cell lysates.



PACSIN2 (F-12): sc-390136. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic and membrane staining of glandular cells.

## STORAGE

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

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