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Swiprosin-2 (S-33): sc-100684

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The Power to Question

BACKGROUND

The EF-hand domain is a twelve amino acid loop motif that is commonly found in proteins that participate in calcium-binding events within the cell. EF-hand domains generally exist in a pair that, together, form a stable four-helix bundle that enables the binding of calcium ions. Swiprosin-2, also known as EFHD1 (EF-hand domain-containing protein D1), SWS2, PP3051 or MST133, is a 239 amino acid protein that contains two EF-hand domains and is expressed in a wide variety of tissues, including brain, liver, heart, kidney, testis, ovaries and spleen. Expression of Swiprosin-2, a possible calcium-binding protein, is upregulated during neuronal differentiation, suggesting a role for Swiprosin-2 in brain development and maturation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EFHD1 (human) mapping to 2q37.1; Efhd1 (mouse) mapping to 1 D.

SOURCE

Swiprosin-2 (S-33) is a mouse monoclonal antibody raised against recombinant Swiprosin-2 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

Swiprosin-2 (S-33) is recommended for detection of Swiprosin-2 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Swiprosin-2 siRNA (h): sc-94294, Swiprosin-2 siRNA (m): sc-153965, Swiprosin-2 shRNA Plasmid (h): sc-94294-SH, Swiprosin-2 shRNA Plasmid (m): sc-153965-SH, Swiprosin-2 shRNA (h) Lentiviral Particles: sc-94294-V and Swiprosin-2 shRNA (m) Lentiviral Particles: sc-153965-V.

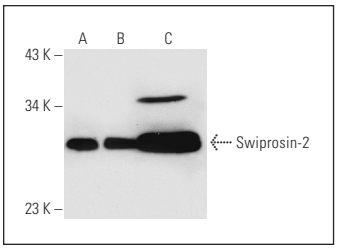
Molecular Weight of Swiprosin-2: 27 kDa.

Positive Controls: Swiprosin-2 (m): 293T Lysate: sc-123860 or HeLa whole cell lysate: sc-2200.

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).

DATA



Swiprosin-2 (S-33): sc-100684. Western blot analysis of Swiprosin-2 expression in non-transfected 293T: sc-117752 (**A**), mouse Swiprosin-2 transfected 293T: sc-123860 (**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.

PROTOCOLS

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