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SANTA CRUZ BIOTECHNOLOGY, INC.

SCAMP2 (m): 293T Lysate: sc-123369

BACKGROUND

Secretory carrier membrane proteins (SCAMPs) are components of the post-Golgi membranes and are invovled in endocytosis, vesicle recycling and membrane trafficking. The structural features of SCAMPs include multiple N-terminal NPF repeats and four highly conserved transmembrane regions. These NPF repeats frequently interact with EH domain proteins and aid in the budding of transport vesicles from the plasma membrane or the Golgi complex. Endocytic budding at the plasma membrane and vesicle budding at the *trans*-Golgi complex facilitates binding of SCAMP proteins to EH domain proteins. SCAMPs exist as distinct but related proteins that include SCAMP1, SCAMP2 and SCAMP3. Tyrosine phosphorylation by the epidermal growth factor receptor of SCAMP1 and SCAMP3 suggests that SCAMPs are regulated by phosphorylation. Although SCAMPs are ubiquitously expressed throughout all tissue, in neural tissue the synaptic vesicles express a particularly high concentration of SCAMP1.

REFERENCES

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4. Wu, T.T. and Castle, J.D. 1997. Evidence for colocalization and interaction beween 37 and 39 kDa isoforms of secretory carrier membrane proteins (SCAMPs). J. Cell Sci. 110: 1533-1541.
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6. Paoluzi, S., Castagnoli, L., Lauro, I., Salcini, A.E., Coda, L., Fre, S., Confalonieri, S. and Pelicii, P.G. 1998. Recognition specificity of individual EH domains of mammals and yeast. EMBO J. 17: 6541-6550.

CHROMOSOMAL LOCATION

Genetic locus: Scamp2 (mouse) mapping to 9 B.

PRODUCT

SCAMP2 (m): 293T Lysate represents a lysate of mouse SCAMP2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

SCAMP2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SCAMP2 antibodies. Recommended use: 10-20 µl per lane.

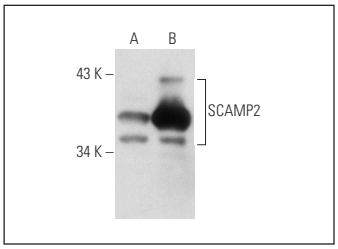
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SCAMP2 (8C10): sc-58286 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SCAMP2 expression in SCAMP2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA



SCAMP2 (8C10): sc-58286. Western blot analysis of SCAMP2 expression in non-transfected: sc-117752 (**A**) and mouse SCAMP2 transfected: sc-123369 (**B**) 293T whole cell lysates.

PROTOCOLS

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