

SCAMP4 (C-16): sc-139052

BACKGROUND

Secretory carrier membrane proteins (SCAMPs) are components of post Golgi membranes that are involved 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, SCAMP3 and SCAMP4. SCAMP4 (secretory carrier membrane protein 4) is a 229 amino acid multi-pass membrane protein that exists as 3 alternatively spliced isoforms and is encoded by a gene located on human chromosome 19p13.3.

REFERENCES

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- Paoluzi, S., et al. 1998. Recognition specificity of individual EH domains of mammals and yeast. *EMBO J.* 17: 6541-6550.
- Fernandez-Chacon, R., et al. 2000. SCAMP1 function in endocytosis. *J. Biol. Chem.* 275: 12752-12756.

CHROMOSOMAL LOCATION

Genetic locus: SCAMP4 (human) mapping to 19p13.3; Scamp4 (mouse) mapping to 10 C1.

SOURCE

SCAMP4 (C-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of SCAMP4 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139052 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SCAMP4 (C-16) is recommended for detection of SCAMP4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other SCAMP family members.

SCAMP4 (C-16) is also recommended for detection of SCAMP4 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for SCAMP4 siRNA (h): sc-97293, SCAMP4 siRNA (m): sc-153244, SCAMP4 shRNA Plasmid (h): sc-97293-SH, SCAMP4 shRNA Plasmid (m): sc-153244-SH, SCAMP4 shRNA (h) Lentiviral Particles: sc-97293-V and SCAMP4 shRNA (m) Lentiviral Particles: sc-153244-V.

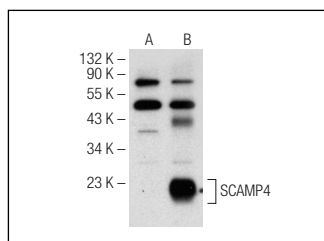
Molecular Weight of SCAMP4: 26 kDa.

Positive Controls: SCAMP4 (h): 293T Lysate: sc-111017.

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) 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



SCAMP4 (C-16): sc-139052. Western blot analysis of SCAMP4 expression in non-transfected: sc-117752 (A) and human SCAMP4 transfected: sc-111017 (B) 293T whole cell lysates.

RESEARCH USE

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