

# SCAMP2 (N-20): sc-13618

## BACKGROUND

Secretory carrier membrane proteins (SCAMPs) are components of the post-Golgi membranes and 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 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.

## CHROMOSOMAL LOCATION

Genetic locus: SCAMP2 (human) mapping to 15q24.1; Scamp2 (mouse) mapping to 9 B.

## SOURCE

SCAMP2 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SCAMP2 of human 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-13618 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

SCAMP2 (N-20) is recommended for detection of SCAMP2 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).

SCAMP2 (N-20) is also recommended for detection of SCAMP2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SCAMP2 siRNA (h): sc-41292, SCAMP2 siRNA (m): sc-41293, SCAMP2 shRNA Plasmid (h): sc-41292-SH, SCAMP2 shRNA Plasmid (m): sc-41293-SH, SCAMP2 shRNA (h) Lentiviral Particles: sc-41292-V and SCAMP2 shRNA (m) Lentiviral Particles: sc-41293-V.

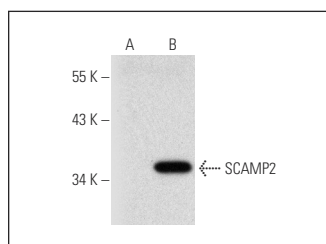
Molecular Weight of SCAMP2: 39 kDa.

Positive Controls: SCAMP2 (m): 293T Lysate: sc-123369, Hep G2 cell lysate: sc-2227 or rat liver extract: sc-2395.

## 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.

## DATA



SCAMP2 (N-20): sc-13618. Western blot analysis of SCAMP2 expression in non-transfected: sc-117752 (A) and mouse SCAMP2 transfected: sc-123369 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

- Müller, H.K., et al. 2006. Subcellular redistribution of the serotonin transporter by secretory carrier membrane protein 2. *J. Biol. Chem.* 281: 28901-28909.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **SCAMP2 (8C10): sc-58286**, our highly recommended monoclonal alternative to SCAMP2 (N-20).