

 Rudolf-Wissell-Str. 28

 37079 Göttingen, Germany

 Phone:
 +49 551-50556-0

 Fax:
 +49 551-50556-384

 E-mail:
 sales@sysy.com

 Web:
 www.sysy.com

## **SCAMP 1**

Cat.No. 121 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

## Data Sheet

Reconstitution/ Storage	50 $\mu$ g specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 $\mu$ l H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: yes ICC: 1 : 500 IHC: 1 : 200 up to 1 : 500 IHC-P/FFPE: 1 : 500
Immunogen	Synthetic peptide corresponding to AA 2 to 15 from rat SCAMP1 (UniProt Id: P56603)
Reactivity	Reacts with: human (O15126), rat (P56603), mouse (Q8K021), hamster. Other species not tested yet.
Specificity	Specific for SCAMP 1.
matching control	121-0P

## TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

**SCAMPs** (secretory carrier membrane proteins) are general markers of membranes that function in cell surface recycling such as secretory vesicles, pancreatic granules, etc. They have four conserved transmembrane regions (TMRs) suggesting a "core" function in membrane traffic. Five isoforms (SCAMP 1-5) have been described. SCAMP 1-3 contain NPF repeats that interact with EH-

domain proteins which are involved in the budding of transport vesicles from the plasma membrane or the Golgi complex. SCAMP 4 and SCAMP 5 lack the NPF repeats.

SCAMP 1-4 are ubiquitously expressed whereas SCAMP 5 is expressed exclusively in brain during late development.

## **Selected General References**

Novel SCAMPs lacking NPF repeats: ubiquitous and synaptic vesicle-specific forms implicate SCAMPs in multiple membranetrafficking functions. Fernández-Chacón R, Südhof TC The Journal of neuroscience : the official journal of the Society for Neuroscience (2000) 20(21): 7941-50.

SCAMP1 function in endocytosis. Fernández-Chacón R, Achiriloaie M, Janz R, Albanesi JP, Südhof TC The Journal of biological chemistry (2000) 275(17): 12752-6.

Genetics of synaptic vesicle function: toward the complete functional anatomy of an organelle. Fernández-Chacón R, Südhof TC Annual review of physiology (1999) 61: 753-76.

Three mammalian SCAMPs (secretory carrier membrane proteins) are highly related products of distinct genes having similar subcellular distributions. Singleton DR, Wu TT, Castle JD Journal of cell science (1997) 110 ( Pt 17): 2099-107.

The synaptic vesicle cycle: a cascade of protein-protein interactions. Südhof TC Nature (1995) 375(6533): 645-53.

Synaptic vesicles and exocytosis. Jahn R, Südhof TC Annual review of neuroscience (1994) 17: 219-46.

SCAMP 37, a new marker within the general cell surface recycling system. Brand SH, Castle JD The EMBO journal (1993) 12(10): 3753-61.