

Human/Mouse SCAMP3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5344

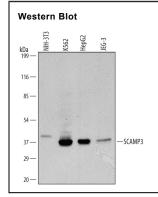
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects endogenous human and mouse SCAMP3 in Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human SCAMP3 Met1-Leu170 Accession # O14828		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human/Mouse SCAMP3 by Western Blot. Western blot shows lysates of NIH-3T3 mouse embryonic fibroblast cell line and K562 human chronic myelogenous leukemia cell line, HepG2 human hepatocellular carcinoma cell line, and JEG-3 human epithelial choriocarcinoma cell line, PVDF membrane was probed with 1 µg/mL of Human/Mouse SCAMP3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5344) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for SCAMP3 at approximately 38 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SCAMP3 (Secretory carrier membrane protein 3) is a 38-40 kDa member of the SCAMP family of proteins. It is expressed in heart and skeletal muscle, plus fat, and functions in post-Golgi recycling and EGFR internalization pathways. Human SCAMP3 is 347 amino acids (aa) in length. It contains a cytoplasmic N-terminus (aa 1-170) that shows three NPF repeats (binding sites for EH domain proteins), a heptad repeat of aliphatic aa's, and a potential SH3-binding motif. This is followed by four consecutive transmembrane domains (aa 171-297) plus a C-terminal cytoplasmic region (aa 298-347). It appears that phosphorylation of SCAMP3 on Tyr41 is a requisite for its interaction with EGFR. There are three potential splice forms. One shows a deletion of aa 23-48, while two others show a one and 23 aa substitution for aa 131-144 and 131-260, respectively. Over aa 1-170, human and mouse SCAMP3 are 91% aa identical.

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