

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse SCAMP3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SCAMP3 Met1-Leu170 Accession # O14828
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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