

DESCRIPTION

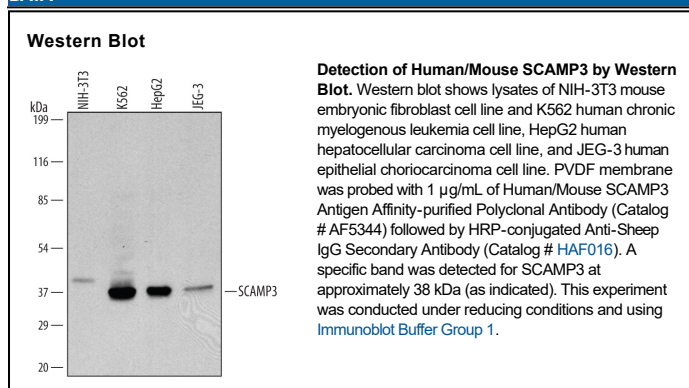
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse SCAMP3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SCAMP3 Met1-Leu170 Accession # O14828
Formulation	Lyophilized from a 0.2 µm filtered 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



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. <ul style="list-style-type: none"> ● 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.