abcam

ab154181

Anti-SCAMP2/SC2 antibody [EPR10185]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR10185
Purification technique	Affinity purification Protein A
Concentration	0.389 - 0.391 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/250 - 1/500
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information Secretory carrier-associated membrane protein 2

Function	Functions in post-Golgi recycling pathways. Acts as a recycling carrier to the cell surface.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	SCAMP2 also known as SC2 is a small protein with a mass of approximately 33 kDa. It plays a role in secretory vesicle trafficking. SCAMP2 is widely expressed in various tissues including high levels in brain and endocrine tissues. This protein is embedded in the membrane of secretory vesicles which suggests an involvement in membrane trafficking processes. SCAMP2 possesses features such as coiled-coil domains important for intracellular trafficking functions.
Biological function summary	SCAMP2 is part of the intricate machinery regulating vesicle fusion and exocytosis. The protein participates in the transportation of vesicles between cell compartments ensuring the delivery of proteins and lipids to their target sites. SCAMP2 often functions as part of a larger complex involving other SCAMP family members enhancing vesicle recycling and secretion process efficiency. It regulates synaptic vesicle exocytosis which is essential for neurotransmitter release in the nervous system.
Pathways	The actions of SCAMP2 are integral in intracellular transport and exocytosis pathways. It interacts with SNARE proteins which are critical components of the membrane fusion machinery. SCAMP2 aids in coordinating the recruitment and assembly of SNARE complexes thereby facilitating efficient vesicle docking and fusion during neurotransmitter release. By engaging with proteins like syntaxin and VAMP2 SCAMP2 ensures proper communication between neurons playing an important role in synaptic transmission.
Associated diseases and disorders	SCAMP2 is linked to neurological conditions such as epilepsy and neurodegenerative disorders. Alterations in SCAMP2 expression or function may affect synaptic transmission which can disrupt neural network stability and lead to disease states. It interacts with other neuronal proteins like synapsin and synaptophysin which may contribute to the development or progression of these conditions. Understanding SCAMP2's role can provide insight into therapeutic approaches for epilepsy and other related disorders.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

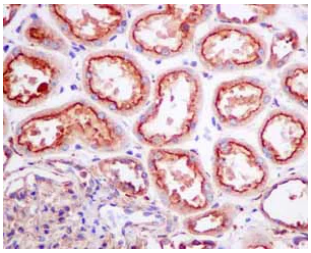
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

8 product images

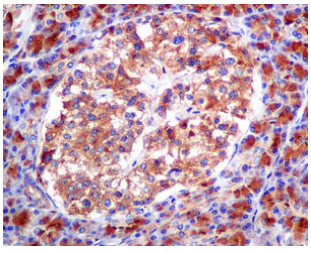


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SCAMP2/SC2 antibody

Immunohistochemical analysis of paraffin embedded Human normal kidney tissue using ab154181 showing +ve staining.

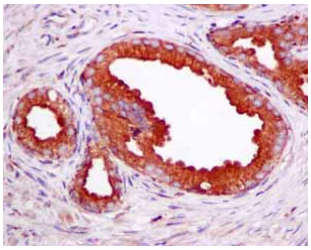
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SCAMP2/SC2 antibody

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling SCAMP2/SC2 with ab154181 at 1/250 dilution.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

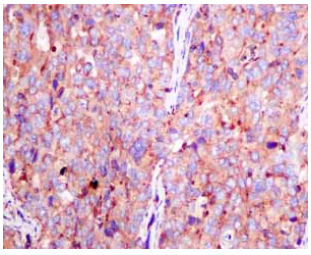


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SCAMP2/SC2 antibody

Immunohistochemical analysis of paraffin embedded Human prostate hyperplasia tissue using ab154181 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

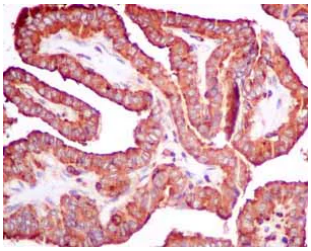


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SCAMP2/SC2 antibody

Immunohistochemical analysis of paraffin embedded Human cervical carcinoma tissue using ab154181 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

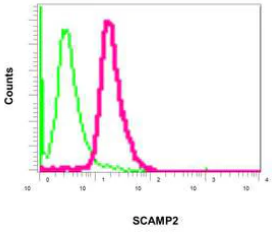


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SCAMP2/SC2 antibody

Immunohistochemical analysis of paraffin embedded Human thyroid gland carcinoma tissue using ab154181 showing +ve staining.

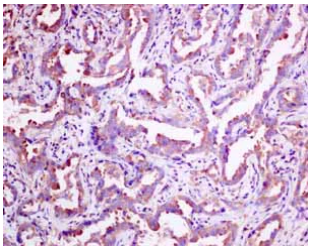
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Flow Cytometry (Intracellular) staining using rabbit Anti-SCAMP2/SC2 antibody

Intracellular flow cytometric analysis of permeabilized 293T cells with ab154181 at 1/10 dilution (red) or a rabbit IgG (negative) (green).

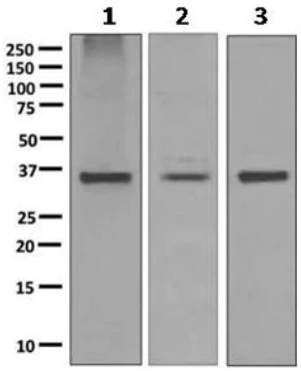


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

SCAMP2/SC2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-SCAMP2/SC2 antibody

Immunohistochemical analysis of paraffin embedded Human lung carcinoma tissue using ab154181 showing +ve staining.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181)

All lanes:
Western blot - Anti-SCAMP2/SC2 antibody [EPR10185] (ab154181) at 1/1000 dilution

Lane 1:
HepG2 lysates at 10 µg

Lane 2:
293T lysates at 10 µg

Lane 3:
Human tonsil lysates at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 37 kDa, 49 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.