

SACM1L Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9560b**Specification**

SACM1L Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9NTJ5](#)**SACM1L Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 22908

Other Names

Phosphatidylinositol phosphatase SAC1, 313-, Suppressor of actin mutations 1-like protein, SACM1L, KIAA0851

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SACM1L Antibody (C-term) Blocking Peptide - Protein InformationName SACM1L ([HGNC:17059](#))**Function**

Phosphoinositide phosphatase which catalyzes the hydrolysis of phosphatidylinositol 4-phosphate (PtdIns(4)P) (PubMed: [24209621](http://www.uniprot.org/citations/24209621), PubMed: [27044890](http://www.uniprot.org/citations/27044890), PubMed: [29461204](http://www.uniprot.org/citations/29461204), PubMed: [30659099](http://www.uniprot.org/citations/30659099)). Can also catalyze the hydrolysis of phosphatidylinositol 3-phosphate (PtdIns(3)P) and has low activity towards phosphatidylinositol-3,5-bisphosphate (PtdIns(3,5)P₂) (By similarity). Shows a very robust PtdIns(4)P phosphatase activity when it binds PtdIns(4)P in a 'cis' configuration in the cellular environment, with much less activity seen when it binds PtdIns(4)P in 'trans' configuration (PubMed: [24209621](http://www.uniprot.org/citations/24209621), PubMed: [29461204](http://www.uniprot.org/citations/29461204), PubMed: [30659099](http://www.uniprot.org/citations/30659099)). PtdIns(4)P phosphatase activity (when it binds PtdIns(4)P in 'trans' configuration) is enhanced in the presence of PLEKHA3 (PubMed: [30659099](http://www.uniprot.org/citations/30659099)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane. Note=Trafficking between the ER and Golgi is regulated by nutrient status and by TMEM39A (PubMed:31806350) Localizes to endoplasmic reticulum-plasma membrane contact sites (EPCS) in the presence of phosphatidylinositol-4,5-bisphosphate (PubMed:27044890).

Tissue Location

Detected in heart, brain, lung, liver, kidney, pancreas and testis.

SACM1L Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SACM1L Antibody (C-term) Blocking Peptide - Images**SACM1L Antibody (C-term) Blocking Peptide - Background**

Phosphoinositide phosphatase that hydrolyzes PtdIns(3)P and PtdIns(4)P. Has low activity towards PtdIns(3,5)P₂ (By similarity).

SACM1L Antibody (C-term) Blocking Peptide - References

??iu, Y., et al. Mol. Biol. Cell 19(7):3080-3096(2008)??ohde, H.M., et al. J. Biol. Chem. 278(52):52689-52699(2003)??hong, R., et al. Plant Physiol. 132(2):544-555(2003)??iss, H., et al. Genomics 73(1):10-19(2001)