

BSCL2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10112a**Specification**

BSCL2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O96G97](#)
Other Accession [NP_001116427.1](#), [NP_001124174.1](#),
[NP_116056.3](#)

BSCL2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 26580

Other Names

Seipin, Bernardinelli-Seip congenital lipodystrophy type 2 protein, BSCL2

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.

BSCL2 Antibody (N-term) Blocking peptide - Protein Information

Name BSCL2

Function

Plays a crucial role in the formation of lipid droplets (LDs) which are storage organelles at the center of lipid and energy homeostasis (PubMed:19278620, PubMed:21533227, PubMed:30293840, PubMed:31708432). In association with LDAF1, defines the sites of LD formation in the ER (PubMed:31708432). Also required for growth and maturation of small nascent LDs into larger mature LDs (PubMed:27564575). Mediates the formation and/or stabilization of endoplasmic reticulum-lipid droplets (ER-LD) contacts, facilitating protein and lipid delivery from the ER into growing LDs (PubMed:27879284, PubMed:31178403). Regulates the maturation of ZFYVE1- positive nascent LDs and the function of the RAB18-ZFYVE1 complex in mediating the formation of ER-LD contacts (PubMed:<a

[30970241](http://www.uniprot.org/citations/30970241)). Binds anionic phospholipids including phosphatidic acid (PubMed:[30293840](http://www.uniprot.org/citations/30293840)). Plays an important role in the differentiation and development of adipocytes (By similarity).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Lipid droplet Note=Localizes at endoplasmic reticulum-lipid droplets (ER-LD) contact sites.

Tissue Location

Expressed in motor neurons in the spinal cord and cortical neurons in the frontal lobe (at protein level). Highly expressed in brain, testis and adipose tissue

BSCL2 Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

BSCL2 Antibody (N-term) Blocking peptide - Images

BSCL2 Antibody (N-term) Blocking peptide - Background

This gene encodes protein seipin, which is located in the endoplasmic reticulum and may be important for lipid droplet morphology. Mutations in this gene have been associated with congenital generalized lipodystrophy type 2 or Berardinelli-Seip syndrome, a rare autosomal recessive disease characterized by an absence of adipose tissue and severe insulin resistance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

BSCL2 Antibody (N-term) Blocking peptide - References

Rakocevic-Stojanovic, V., et al. J. Neurol. Sci. 296 (1-2), 107-109 (2010) ;Luigetti, M., et al. Muscle Nerve 42(3):448-451(2010)Nishiyama, A., et al. Pediatr Int 51(6):775-779(2009)Wu, Y.R., et al. J. Neurol. Neurosurg. Psychiatr. 80(10):1180-1181(2009)Chen, W., et al. Endocrinology 150(10):4552-4561(2009)