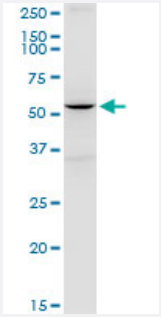
BSCL2 polyclonal antibody (A02)

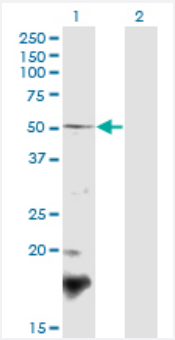
Catalog # H00026580-A02 Size 50 uL

Applications



Western Blot (Cell lysate)

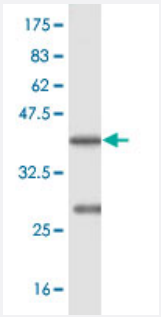
BSCL2 polyclonal antibody (A02). Western Blot analysis of BSCL2 expression in Jurkat.



Western Blot (Transfected lysate)

Western Blot analysis of BSCL2 expression in transfected 293T cell line by BSCL2 polyclonal antibody (A02).

Lane1:BSCL2 transfected lysate (Predicted MW: 44.5 KDa).
Lane2:Non-transfected lysate.



Western Blot detection against Immunogen (36.23 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant BSCL2.
Immunogen	BSCL2 (NP_116056, 263 a.a. ~ 354 a.a) partial recombinant protein with GST tag.

Sequence	WPRHRFSLQVNIRKRDNSRKEVQRRISAHQPGPEGQEESTPQSDVTEDGESPEDPSGTEGQLS EEEKPDQQPLSGEEELEPEASDGSGSWED
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.23 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  BSCL2 polyclonal antibody (A02). Western Blot analysis of BSCL2 expression in Jurkat.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of BSCL2 expression in transfected 293T cell line by BSCL2 polyclonal antibody (A02).

  Lane1:BSCL2 transfected lysate (Predicted MW: 44.5 KDa).
  Lane2:Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — BSCL2

Entrez GeneID	26580
GeneBank Accession#	NM_032667
Protein Accession#	NP_116056
Gene Name	BSCL2

Gene Alias	GNG3LG, HMN5, MGC4694, SPG17
Gene Description	Bernardinelli-Seip congenital lipodystrophy 2 (seipin)
Omim ID	269700 270685 600794 606158
Gene Ontology	Hyperlink
Gene Summary	This gene encodes protein seipin, which is located in the endoplasmic reticulum and may be imp ortant for lipid droplet morphology. Mutations in this gene have been associated with congenital g eneralized lipodystrophy type 2 or Berardinelli-Seip syndrome, a rare autosomal recessive disea se characterized by a near absence of adipose tissue and severe insulin resistance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	seipin

Publication Reference

- Parallel CRISPR-Cas9 screens identify mechanisms of PLIN2 and lipid droplet regulation.

  Melissa A Roberts, Kirandeep K Deol, Alyssa J Mathiowetz, Mike Lange, Dara E Leto, Julian Stevenson, Sayed Hadi Hashemi, David W Morgens, Emilee Easter, Kartoosh Heydari, Mike A Nalls, Michael C Bassik, Martin Kampmann, Ron R Kopito, Faraz Faghri, James A Olzmann.

  Developmental Cell 2023 Sep; 58(18):1782.

  Application: WB-Tr, Human, Huh7 cell

- Multiple C2 domain-containing transmembrane proteins promote lipid droplet biogenesis and growth at specialized ER subdomains.

  Amit S Joshi, Joey V Ragusa, William A Prinz, Sarah Cohen.

  Molecular Biology of the Cell 2021 Jun; 32(12):1147.

  Application: IF, WB-Tr, Monkey, COS-7 cells

- LDAF1 and Seipin Form a Lipid Droplet Assembly Complex.

  Chung J, Wu X, Lambert TJ, Lai ZW, Walther TC, Farese RV Jr.

  Developmental Cell 2019 Dec; 51(5):551.

  Application: WB-Tr, Human, SUM159 cells

- The ER-Localized Protein DFCP1 Modulates ER-Lipid Droplet Contact Formation.

  Li D, Zhao YG, Li D, Zhao H, Huang J, Miao G, Feng D, Liu P, Li D, Zhang H.

  Cell Reports 2019 Apr; 27(2):343.

  Application: WB-Tr, Human, Monkey, COS-7, HeLa cells

- Adipose-specific knockout of Seipin/Bscl2 results in progressive lipodystrophy.

  Liu L, Jiang Q, Wang X, Zhang Y, Lin RC, Lam SM, Shui G, Zhou L, Li P, Wang Y, Cui X, Gao M, Zhang L, Lv Y, Xu G, Liu G, Zhao D, Yang H.

  Diabetes 2014 Jul; 63(7):2320.

  Application: WB-Ti, Mouse, Adipose tissue

- Overexpression of a short human seipin/BSCL2 isoform in mouse adipose tissue results in mild lipodystrophy.

  Cui X, Wang Y, Meng L, Fei W, Deng J, Xu G, Peng X, Ju S, Zhang L, Liu G, Zhao L, Yang H.

  American Journal of Physiology. Endocrinology and Metabolism 2012 Mar; 302(6):E705.

  Application: WB-Ti, Mouse, White adipose, Brown adipose tissue, Liver, Kidney, Heart

Disease

- Disease Progression
- Genetic Predisposition to Disease
- Multiple Sclerosis
- Spastic Paraplegia