

Store at  
-20C  
#23846**BSCL2/Seipin (D3W8C) Rabbit mAb**

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<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 50	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q96G97	<b>Entrez-Gene Id:</b> 26580
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:100

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

BSCL2/Seipin (D3W8C) Rabbit mAb recognizes endogenous levels of total BSCL2/Seipin protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu383 of human BSCL2 protein.

**Background**

Seipin/BSCL2 is a homo-oligomeric membrane protein at the endoplasmic reticulum lipid droplet junction (1). Studies have demonstrated that Seipin/BSCL2 plays an important role in adipogenesis, lipid droplet homeostasis, liposis, brain development, and spermatogenesis. However, the exact function of BSCL2/Seipin is still not clear (2-5). BSCL2/Seipin is mutated in several human diseases, including Berardinelli-Seip congenital lipodystrophy, an autosomal recessive disorder characterized by a near absence of adipose tissues, severe insulin resistance, hypertriglyceridemia, hepatic steatosis, and early onset of diabetes (6-8).

**Background References**

1. Szymanski, K.M. et al. (2007) *Proc Natl Acad Sci U S A* 104, 20890-5.
2. Liu, L. et al. (2014) *Diabetes* 63, 2320-31.
3. Jiang, M. et al. (2014) *Proc Natl Acad Sci U S A* 111, 7054-9.
4. Ebihara, C. et al. (2015) *Hum Mol Genet* 24, 4238-49.
5. Dollet, L. et al. (2014) *Biochimie* 96, 166-72.
6. Windpassinger, C. et al. (2004) *Nat Genet* 36, 271-6.
7. Boutet, E. et al. (2009) *Biochimie* 91, 796-803.
8. Opri, R. et al. (2016) *Seizure* 42, 1-6.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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