

SMCR7L Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5571a**Specification**

SMCR7L Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O9NOG6](#)
Other Accession [NP_061881.2](#)

SMCR7L Antibody (N-term) Blocking peptide - Additional Information

Gene ID 54471

Other Names

Mitochondrial dynamics protein MID51, Mitochondrial dynamics protein of 51 kDa, Mitochondrial elongation factor 1, Smith-Magenis syndrome chromosomal region candidate gene 7 protein-like, SMCR7-like protein, MIEF1, MID51, SMCR7L

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.

SMCR7L Antibody (N-term) Blocking peptide - Protein Information

Name MIEF1 ([HGNC:25979](#))

Function

Mitochondrial outer membrane protein which regulates mitochondrial fission. Promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins. Regulates DNM1L GTPase activity and DNM1L oligomerization. Binds ADP and can also bind GDP, although with lower affinity. Does not bind CDP, UDP, ATP, AMP or GTP. Inhibits DNM1L GTPase activity in the absence of bound ADP. Requires ADP to stimulate DNM1L GTPase activity and the assembly of DNM1L into long, oligomeric tubules with a spiral pattern, as opposed to the ring-like DNM1L oligomers observed in the absence of bound ADP. Does not require ADP for its function in recruiting DNM1L.

Cellular Location

Mitochondrion outer membrane; Single-pass membrane protein

Tissue Location

Expression is relatively high in heart, skeletal muscle, pancreas and kidney.

SMCR7L Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SMCR7L Antibody (N-term) Blocking peptide - Images**SMCR7L Antibody (N-term) Blocking peptide - Background**

SMCR7L belongs to the SMCR7 family. The specific function of this protein remains unknown.

SMCR7L Antibody (N-term) Blocking peptide - References

Jin, J., et al. Curr. Biol. 14(16):1436-1450(2004)Simpson, J.C., et al. EMBO Rep.
1(3):287-292(2000)Dunham, I., et al. Nature 402(6761):489-495(1999)