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SMCR7L Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP5571a

Specification

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

Primary Accession	Q9NQG6
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.

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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)