

SLC25A33 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5809b**Specification**

SLC25A33 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O9BSK2](#)
Other Accession [NP_115691.1](#)

SLC25A33 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 84275

Other Names

Solute carrier family 25 member 33, Bone marrow stromal cell mitochondrial carrier protein, BMSC-MCP, HuBMSC-MCP, Protein PNC1, SLC25A33

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.

SLC25A33 Antibody (C-term) Blocking peptide - Protein Information

Name SLC25A33

Function

Mitochondrial transporter that imports/exports pyrimidine nucleotides into and from mitochondria. Selectively transports uridine, thymidine, guanosine, cytosine and inosine (deoxy)nucleoside di- and triphosphates by an antiport mechanism (PubMed:25320081). May import (deoxy)nucleoside triphosphates in exchange for intramitochondrial (deoxy)nucleoside diphosphates, thus providing precursors necessary for de novo synthesis of mitochondrial DNA and RNA while exporting products of their catabolism (PubMed:25320081). Participates in mitochondrial genome maintenance, regulation of mitochondrial membrane potential and mitochondrial respiration (PubMed:20453889). Upon INS or IGF1 stimulation regulates cell growth and proliferation by controlling mitochondrial DNA replication and transcription, the ratio of mitochondria-to nuclear-encoded components of the electron transport chain resulting in control of mitochondrial ROS production (PubMed:20453889, PubMed:17596519). Participates in dendritic cell endocytosis and may associate

with mitochondrial oxidative phosphorylation (PubMed:14715278).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Expressed in the central nervous system. Also expressed in testis and skeletal muscle. Weakly expressed in heart, liver, kidney, prostate, colon and peripheral blood leukocytes

SLC25A33 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC25A33 Antibody (C-term) Blocking peptide - Images**SLC25A33 Antibody (C-term) Blocking peptide - Background**

SLC25A33 belongs to the SLC25 family of mitochondrial carrier proteins (Haitina et al., 2006 [PubMed 16949250]).[suppliedby OMIM].

SLC25A33 Antibody (C-term) Blocking peptide - References

Haitina, T., et al. Genomics 88(6):779-790(2006)Wang, B., et al. Biochem. Biophys. Res. Commun. 314(1):292-300(2004)Hildyard, J.C., et al. Biochem. J. 374 (PT 3), 607-611 (2003) :