

SLC25A3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9080b

Specification

SLC25A3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q00325](#)

SLC25A3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5250

Other Names

Phosphate carrier protein, mitochondrial, Phosphate transport protein, PTP, Solute carrier family 25 member 3, SLC25A3, PHC

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP9080b](/products/AP9080b) was selected from the Center region of human SLC25A3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SLC25A3 Antibody (Center) Blocking Peptide - Protein Information

Name SLC25A3 {ECO:0000303|PubMed:29237729, ECO:0000312|HGNC:HGNC:10989}

Function

Inorganic ion transporter that transports phosphate or copper ions across the mitochondrial inner membrane into the matrix compartment (By similarity) (PubMed:[17273968](http://www.uniprot.org/citations/17273968), PubMed:[29237729](http://www.uniprot.org/citations/29237729)). Mediates proton-coupled symport of phosphate ions necessary for mitochondrial oxidative phosphorylation of ADP to ATP (By similarity) (PubMed:[17273968](http://www.uniprot.org/citations/17273968)). Transports copper ions probably in the form of anionic copper(I) complexes to maintain mitochondrial matrix copper pool and to supply copper for cytochrome C oxidase complex assembly (PubMed:[29237729](http://www.uniprot.org/citations/29237729)). May also play a role in regulation of the mitochondrial permeability transition pore (mPTP) (By similarity).

Cellular Location

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P12234}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P12234}

SLC25A3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC25A3 Antibody (Center) Blocking Peptide - Images**SLC25A3 Antibody (Center) Blocking Peptide - Background**

SLC25A3 catalyzes the transport of phosphate into the mitochondrial matrix, either by proton cotransport or in exchange for hydroxyl ions. The protein contains three related segments arranged in tandem which are related to those found in other characterized members of the mitochondrial carrier family. Both the N-terminal and C-terminal regions of this protein protrude toward the cytosol.

SLC25A3 Antibody (Center) Blocking Peptide - References

Martins-de-Souza,D., et.al., BMC Psychiatry 9, 17 (2009)Mayr,J.A., et.al., Am. J. Hum. Genet. 80 (3), 478-484 (2007)