

SLC25A21 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP19237a**Specification**

SLC25A21 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9BOT8](#)**SLC25A21 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 89874**Other Names**

Mitochondrial 2-oxodicarboxylate carrier, Solute carrier family 25 member 21, SLC25A21, ODC

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.

SLC25A21 Antibody (N-term) Blocking Peptide - Protein Information**Name** SLC25A21**Synonyms** ODC**Function**

Transports dicarboxylates across the inner membranes of mitochondria by a counter-exchange mechanism (PubMed: <http://www.uniprot.org/citations/11083877> target="_blank">11083877). Can transport 2-oxoadipate (2-oxohexanedioate), 2-oxoglutarate, adipate (hexanedioate), glutarate, and to a lesser extent, pimelate (heptanedioate), 2-oxopimelate (2-oxoheptanedioate), 2-aminoadipate (2-aminohexanedioate), oxaloacetate, and citrate (PubMed: <http://www.uniprot.org/citations/11083877> target="_blank">11083877). Plays a central role in catabolism of lysine, hydroxylysine, and tryptophan, by transporting common metabolite intermediates (such as 2-oxoadipate) into the mitochondria, where it is converted into acetyl-CoA and can enter the citric acid (TCA) cycle (Probable).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Expressed in placenta, gall bladder and colon.

SLC25A21 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SLC25A21 Antibody (N-term) Blocking Peptide - Images**SLC25A21 Antibody (N-term) Blocking Peptide - Background**

SLC25A21 is a homolog of the *S. cerevisiae* ODC proteins, mitochondrial carriers that transport C5-C7 oxodicarboxylates across inner mitochondrial membranes. One of the species transported by ODC is 2-oxoadipate, a common intermediate in the catabolism of lysine, tryptophan, and hydroxylysine in mammals. Within mitochondria, 2-oxoadipate is converted into acetyl-CoA.

SLC25A21 Antibody (N-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care (2010) In press : Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642 (2009) Trynka, G., et al. Gut 58(8):1078-1083 (2009) Fiermonte, G., et al. J. Biol. Chem. 276(11):8225-8230 (2001)