

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

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**SLC25A21 Antibody (N-term) Blocking Peptide - Product Information**Primary 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:<a href="http://www.uniprot.org/citations/11083877" target="\_blank">11083877</a>). 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:<a href="http://www.uniprot.org/citations/11083877" target="\_blank">11083877</a>). 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)