

**SLC25A11 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19070c****Specification**

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**SLC25A11 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q02978](#)**SLC25A11 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 8402**Other Names**

Mitochondrial 2-oxoglutarate/malate carrier protein, OGCP, Solute carrier family 25 member 11, SLC25A11, SLC20A4

**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.

**SLC25A11 Antibody (Center) Blocking Peptide - Protein Information****Name** SLC25A11**Synonyms** SLC20A4**Function**

Catalyzes the transport of 2-oxoglutarate (alpha- oxoglutarate) across the inner mitochondrial membrane in an electroneutral exchange for malate. Can also exchange 2-oxoglutarate for other dicarboxylic acids such as malonate, succinate, maleate and oxaloacetate, although with lower affinity. Contributes to several metabolic processes, including the malate-aspartate shuttle, the oxoglutarate/isocitrate shuttle, in gluconeogenesis from lactate, and in nitrogen metabolism (By similarity). Maintains mitochondrial fusion and fission events, and the organization and morphology of cristae (PubMed: <http://www.uniprot.org/citations/21448454> target="\_blank">21448454</a>). Involved in the regulation of apoptosis (By similarity). Helps protect from cytotoxic-induced apoptosis by modulating glutathione levels in mitochondria (By similarity).

**Cellular Location**

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P97700}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97700}

**Tissue Location**

Most highly expressed in the heart.

**SLC25A11 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**SLC25A11 Antibody (Center) Blocking Peptide - Images****SLC25A11 Antibody (Center) Blocking Peptide - Background**

The oxoglutarate/malate carrier transports 2-oxoglutarate across the inner membranes of mitochondria in an electroneutral exchange for malate or other dicarboxylic acids (summarized by Iacobazzi et al., 1992 [PubMed 1457818]).

**SLC25A11 Antibody (Center) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Kabe, Y., et al. J. Biol. Chem. 281(42):31729-31735(2006) Wang, A.G., et al. Biochem. Biophys. Res. Commun. 345(3):1022-1032(2006) Coll, O., et al. Hepatology 38(3):692-702(2003)