

SLC25A11 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51792

Specification

SLC25A11 Antibody - Product Information

Application WB, E
Primary Accession Q02978
Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 20 KDa

SLC25A11 Antibody - Additional Information

Gene ID 8402

Other Names

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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SLC25A11. The exact sequence is proprietary.

Dilution

WB~~1:1000 E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

SLC25A11 Antibody - 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:21448454). 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 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

SLC25A11 Antibody - Images

SLC25A11 Antibody - Background

Catalyzes the transport of 2-oxoglutarate across the inner mitochondrial membrane in an electroneutral exchange for malate or other dicarboxylic acids, and plays an important role in several metabolic processes, including the malate-aspartate shuttle, the oxoglutarate/isocitrate shuttle, in gluconeogenesis from lactate, and in nitrogen metabolism.

SLC25A11 Antibody - References

lacobazzi V.,et al.DNA Seq. 3:79-88(1992).

Yu W.,et al.Submitted (JUN-1998) to the EMBL/GenBank/DDBJ databases.

Zody M.C., et al. Nature 440:1045-1049(2006).

Bienvenut W.V., et al. Submitted (JUN-2005) to UniProtKB.

Gauci S., et al. Anal. Chem. 81:4493-4501(2009).