10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC25A10 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9894c

Specification

SLC25A10 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9UBX3

SLC25A10 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1468

Other Names
Mitochondrial dicarboxylate carrier, Solute carrier family 25 member 10, SLC25A10, DIC

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.

SLC25A10 Antibody (Center) Blocking Peptide - Protein Information

Name SLC25A10

Synonyms DIC

Function
Catalyzes the electroneutral exchange or flux of physiologically important metabolites such as dicarboxylates (malonate, malate, succinate), inorganic sulfur-containing anions, and phosphate, across mitochondrial inner membrane (PubMed:29211846). Plays an important role in gluconeogenesis, fatty acid metabolism, urea synthesis, and sulfur metabolism, particularly in liver, by supplying the substrates for the different metabolic processes. Regulates fatty acid release from adipocytes, and contributes to systemic insulin sensitivity (By similarity).

Cellular Location
Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location
Present in high amounts in liver and kidney, and at lower levels in all the other tissues analyzed

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SLC25A10 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

SLC25A10 Antibody (Center) Blocking Peptide - Images

SLC25A10 Antibody (Center) Blocking Peptide - Background

The dicarboxylate carrier catalyzes the transport of dicarboxylates such as malate and succinate across the mitochondrial membrane in exchange for phosphate, sulfate, and thiosulfate, thus supplying substrates for the Krebs cycle, gluconeogenesis, urea synthesis, and sulfur metabolism.

SLC25A10 Antibody (Center) Blocking Peptide - References

Xin, X., et al. Genome Res. 19(7):1262-1269(2009)Khanna, H., et al. J. Biol. Chem. 280(39):33580-33587(2005)Mizuarai, S., et al. J. Biol. Chem. 280(37):32434-32441(2005)