

SLC16A12 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10340b

Specification

SLC16A12 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O6ZSM3](#)
Other Accession [NP_998771.3](#)

SLC16A12 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 387700

Other Names

Monocarboxylate transporter 12, MCT 12, Creatine transporter 2, CRT2, Solute carrier family 16 member 12, SLC16A12, MCT12

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.

SLC16A12 Antibody (C-term) Blocking peptide - Protein Information

Name SLC16A12 ([HGNC:23094](#))

Function

Functions as a transporter for creatine and as well for its precursor guanidinoacetate. Transport of creatine and GAA is independent of resting membrane potential and extracellular Na(+), Cl(-), or pH. Contributes to the process of creatine biosynthesis and distribution.

Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8BGC3}; Multi-pass membrane protein. Note=Interaction with isoform 2 of BSG is required for its localization to the plasma membrane.

Tissue Location

Most highly expressed in kidney, followed by retina, lung, heart and testis. Very weakly expressed in brain and liver. Also detected in lens.

SLC16A12 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC16A12 Antibody (C-term) Blocking peptide - Images

SLC16A12 Antibody (C-term) Blocking peptide - Background

This gene encodes a transmembrane transporter that likely plays a role in monocarboxylic acid transport. A mutation in this gene has been associated with juvenile cataracts with microcornea and renal glucosuria.

SLC16A12 Antibody (C-term) Blocking peptide - References

Zuercher, J., et al. Invest. Ophthalmol. Vis. Sci. 51(7):3354-3361(2010) Kloeckener-Gruissem, B., et al. Am. J. Hum. Genet. 82(3):772-779(2008) Halestrap, A.P., et al. Pflugers Arch. 447(5):619-628(2004)