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SLC16A3 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12397b

Specification

SLC16A3 Antibody (C-term) Blocking peptide - Product Information

Primary Accession O15427

SLC16A3 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 9123

Other Names
Monocarboxylate transporter 4, MCT 4, Solute carrier family 16 member 3, SLC16A3, MCT4

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.

SLC16A3 Antibody (C-term) Blocking peptide - Protein Information

Name SLC16A3

Synonyms MCT3 {ECO:0000303|PubMed:9425115}, MCT4

Function
Proton-dependent transporter of monocarboxylates such as L- lactate and pyruvate (PubMed:11101640, PubMed:23935841, PubMed:31719150). Plays a predominant role in L-lactate efflux from highly glycolytic cells (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein. Note=Plasma membrane localization is dependent upon the BSG/MCT4 interaction (PubMed:10921872). Basolateral sorting signals (BLSS) in C-terminal cytoplasmic tail ensure its basolateral expression in polarised epithelial cells (PubMed:21199217)

Tissue Location
Highly expressed in skeletal muscle.

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SLC16A3 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

SLC16A3 Antibody (C-term) Blocking peptide - Images

SLC16A3 Antibody (C-term) Blocking peptide - Background

Lactic acid and pyruvate transport across plasma membranesis catalyzed by members of the proton-linked monocarboxylatetransporter (MCT) family, which has been designated solute carrierfamily-16. Each MCT appears to have slightly different substrateand inhibitor specificities and transport kinetics, which arerelated to the metabolic requirements of the tissues in which it isfound. The MCTs, which include MCT1 (SLC16A1; MIM 600682) and MCT2(SLC16A7; MIM 603654), are characterized by 12 predictedtransmembrane domains (Price et al., 1998 [PubMed9425115]).

SLC16A3 Antibody (C-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Vellonen, K.S., et al. Eur J Pharm Sci 39(4):241-247(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Wang, Q., et al. Drug Metab. Dispos. 35(8):1393-1399(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)