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SLC16A10 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13235b

Specification

SLC16A10 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q8TF71

SLC16A10 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 117247

Other Names
Monocarboxylate transporter 10, MCT 10, Aromatic amino acid transporter 1, Solute carrier family 16 member 10, T-type amino acid transporter 1, SLC16A10, MCT10, TAT1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13235b was selected from the C-term region of SLC16A10. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SLC16A10 Antibody (C-term) Blocking peptide - Protein Information

Name SLC16A10

Synonyms MCT10, TAT1 {ECO:0000303|PubMed:11827462

Function
Sodium- and proton-independent thyroid hormones and aromatic acids transporter (PubMed:11827462, PubMed:18337592, PubMed:28754537). Mediates both uptake and efflux of 3,5,3'-triiodothyronine (T3) and 3,5,3',5'-tetraiodothyronine (T4) with high affinity, suggesting a role in the homeostasis of thyroid hormone levels (PubMed:18337592). Responsible for low affinity bidirectional transport of the aromatic amino acids, such as phenylalanine, tyrosine, tryptophan and L-3,4- dihydroxyphenylalanine (L-dopa) (PubMed:11827462, PubMed:<a

href="http://www.uniprot.org/citations/28754537" target="_blank">28754537). Plays an important role in homeostasis of aromatic amino acids (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q91Y77}; Multi-pass membrane protein

Tissue Location
Strongly expressed in kidney and skeletal muscle and at lower level in placenta and heart

SLC16A10 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

SLC16A10 Antibody (C-term) Blocking peptide - Images

SLC16A10 Antibody (C-term) Blocking peptide - Background

SLC16A10 is a member of a family of plasma membrane aminoacid transporters that mediate the Na(+)-independent transport ofaromatic amino acids across the plasma membrane.

SLC16A10 Antibody (C-term) Blocking peptide - References

Loubiere, L.S., et al. Placenta 31(4):295-304(2010)Friesema, E.C., et al. Mol. Endocrinol. 22(6):1357-1369(2008)Broer, S. Physiol. Rev. 88(1):249-286(2008)Park, S.Y., et al. Arch. Pharm. Res. 28(4):421-432(2005)Halestrap, A.P., et al. Pflugers Arch. 447(5):619-628(2004)