

SLC16A10 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13235B

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q8TF71
Other Accession	NP_061063.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33083
Calculated MW	55493
Antigen Region	301-329

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	This SLC16A10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 301-329 amino acids from the C-terminal region of human SLC16A10.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLC16A10 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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: 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

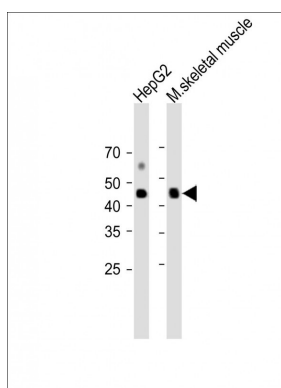
Background

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

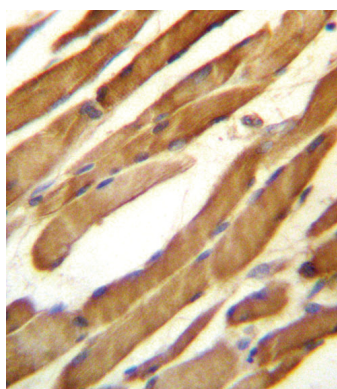
References

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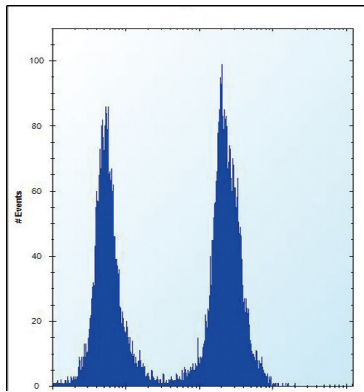
Images



All lanes: Anti-SLC16A10 Antibody (C-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Mouse skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 45 KDa Blocking/Dilution buffer: 5% NFDm/TBST.



SLC16A10 Antibody (C-term) (Cat. #AP13235b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SLC16A10 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



SLC16A10 Antibody (C-term) (Cat. #AP13235b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.