

# SLC16A10 Rabbit pAb

Catalog # AP99598

## Product Information

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|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>                      | WB, IHC-P, IHC-F, IF                                                                                                      |
| <b>Primary Accession</b>                | <a href="#">Q8TF71</a>                                                                                                    |
| <b>Other Accession</b>                  | <a href="#">Q8TF71</a>                                                                                                    |
| <b>Reactivity</b>                       | Human, Mouse                                                                                                              |
| <b>Predicted</b>                        | Rat                                                                                                                       |
| <b>Host</b>                             | Rabbit                                                                                                                    |
| <b>Clonality</b>                        | Polyclonal                                                                                                                |
| <b>Calculated MW</b>                    | 55493                                                                                                                     |
| <b>Physical State</b>                   | Liquid                                                                                                                    |
| <b>Immunogen</b>                        | KLH conjugated synthetic peptide derived from human SLC16A10                                                              |
| <b>Epitope Specificity</b>              | 121-220/515                                                                                                               |
| <b>Isotype</b>                          | IgG                                                                                                                       |
| <b>Purity</b>                           | affinity purified by Protein A                                                                                            |
| <b>Buffer</b>                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                         |
| <b>SIMILARITY</b>                       | Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.                                |
| <b>Post-translational modifications</b> | Not N-glycosylated.                                                                                                       |
| <b>Important Note</b>                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

## Additional Information

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| <b>Gene ID</b>     | 117247                                                                                                                                                                                                                                                                                                                                                        |
| <b>Other Names</b> | MCT10; PRO0813; TAT1; 2610103N14Rik; 9830169E08; MOT10_HUMAN; SLC16A10; MCT 10; Aromatic amino acid transporter 1; Solute carrier family 16 member 10; T-type amino acid transporter 1; MOT10_MOUSE; MOT10_RAT; solute carrier family 16 (monocarboxylic acid transporters), member 10; solute carrier family 16 (aromatic amino acid transporter), member 10 |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:50-300,IHC-F=1:50-300,IF=1:50-300                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                                                                                               |

## Protein Information

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| <b>Name</b>     | SLC16A10                                  |
| <b>Synonyms</b> | MCT10, TAT1 {ECO:0000303 PubMed:11827462} |

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| <b>Function</b>          | Sodium- and proton-independent thyroid hormones and aromatic acids transporter (PubMed: <a href="#">11827462</a> , PubMed: <a href="#">18337592</a> , PubMed: <a href="#">28754537</a> ). 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: <a href="#">18337592</a> ). Responsible for low affinity bidirectional transport of the aromatic amino acids, such as phenylalanine, tyrosine, tryptophan and L-3,4- dihydroxyphenylalanine (L-dopa) (PubMed: <a href="#">11827462</a> , PubMed: <a href="#">28754537</a> ). Plays an important role in homeostasis of aromatic amino acids (By similarity). |
| <b>Cellular Location</b> | Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250 UniProtKB:Q91Y77}; Multi-pass membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tissue Location</b>   | Strongly expressed in kidney and skeletal muscle and at lower level in placenta and heart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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