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Anti-MCT8 Antibody

Catalog # AP53702

Product Information

Application	WB, IF/IC
Primary Accession	P36021
Reactivity	Human, Mouse, Rat, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59511

Additional Information

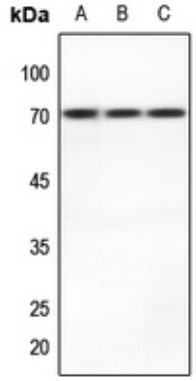
Gene ID	6567
Other Names	MCT8; XPCT; Monocarboxylate transporter 8; MCT 8; Monocarboxylate transporter 7; MCT 7; Solute carrier family 16 member 2; X-linked PEST-containing transporter
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MCT8. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

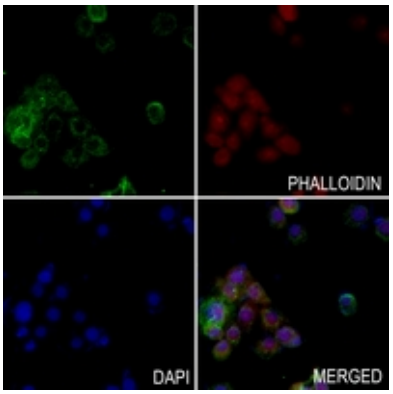
Name	SLC16A2
Function	Specific thyroid hormone transmembrane transporter, that mediates both uptake and efflux of thyroid hormones across the cell membrane independently of pH or a Na(+) gradient. Major substrates are the iodothyronines T3 and T4 and to a lesser extent rT3 and 3,3- diiodothyronine (3,3'-T2) (PubMed:16887882, PubMed:18337592, PubMed:20628049, PubMed:23550058, PubMed:27805744, PubMed:31436139, PubMed:26426690, PubMed:38661522, PubMed:40140416, PubMed:40368961, PubMed:40680733). Acts as an important mediator of thyroid hormone transport, especially T3, through the blood-brain barrier (Probable) (PubMed:28526555). Mediates the efflux of 3,5-diiodo-L-tyrosine (DIT) and 3-iodo-L-tyrosine (MIT) (PubMed:38661522).
Cellular Location	Cell membrane; Multi-pass membrane protein. Apical cell membrane; Multi-pass membrane protein

Tissue Location	Highly expressed in liver and heart (PubMed:7981683). In adult brain tissue expression is largely confined to endothelial cells of the blood-brain barrier (at protein level) (PubMed:18687783, PubMed:32143555).

Images



Western blot analysis of MCT8 expression in mouse liver (A), rat liver (B), rat kidney (C) whole cell lysates. (Predicted band size: 59 kD; Observed band size: 70 kD)



Immunofluorescent analysis of MCT8 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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