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Anti-MCT12 Antibody

Catalog # AP53919

Product Information

Application	WB, IHC
Primary Accession	Q6ZSM3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56498

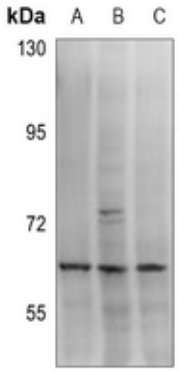
Additional Information

Gene ID	387700
Other Names	MCT12; Monocarboxylate transporter 12; MCT 12; Solute carrier family 16 member 12
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MCT12. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IHC~~1/50 - 1/200
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

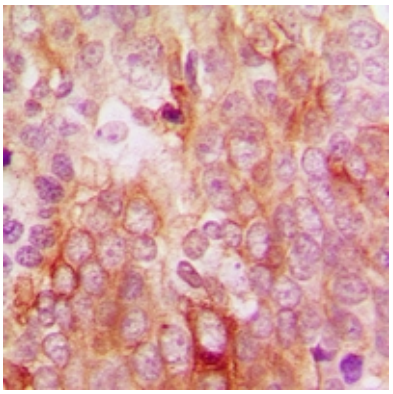
Protein Information

Name	SLC16A12 (HGNC:23094)
Function	Functions as a transporter for creatine and as well for its precursor guanidinoacetate. Transport of creatine and GAA is independent of resting membrane potential and extracellular Na(+), Cl(-), or pH. Contributes to the process of creatine biosynthesis and distribution.
Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q8BGC3}; Multi-pass membrane protein. Note=Interaction with isoform 2 of BSG is required for its localization to the plasma membrane.
Tissue Location	Most highly expressed in kidney, followed by retina, lung, heart and testis. Very weakly expressed in brain and liver. Also detected in lens.

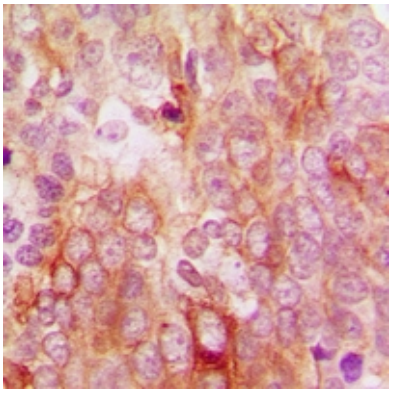
Images



Western blot analysis of MCT12 expression in HEK293T (A), A549 (B), HepG2 (C) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 60 kD)



Immunohistochemical analysis of MCT12 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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