Rabbit SLC16A1 Polyclonal Antibody | anti-SLC16A1 antibody

SLC16A1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326878	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry, Western Blot**

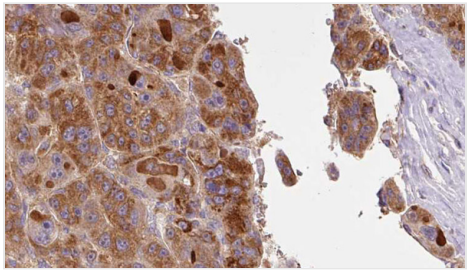
PRODUCT SYNONYMS

SLC16A1; Polyclonal Antibody; SLC16A1 Antibody; FLJ36745; HHF7; MCT 1; MCT; MGC44475; Monocarboxylate transporter 1; Monocarboxylate transporter; Monocarboxylate transporter isoform 1; Monocarboxylic acid transporter 1; MOT1_HUMAN; Slc16a1; SLC16A1 protein; Solute carrier family 16 (monocarboxylic acid transporters) member 1; Solute carrier family 16 member 1 (monocarboxylic acid transporter 1); Solute carrier family 16 member 1; anti-SLC16A1 antibody

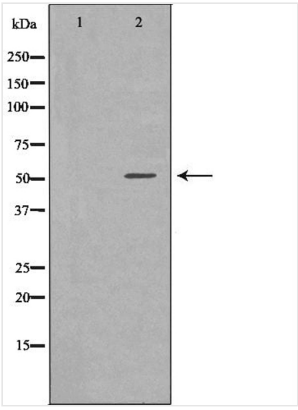
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SLC16A1 antibody detects endogenous levels of total SLC16A1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	500
Applicable Applications for anti-SLC16A1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human SLC16A1
Subcellular Location	Cell Membrane
Tissue Specificity	Detected in heart and in blood lymphocytes and monocytes (at protein level). Widely expressed.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA326878 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Mouse seminoma tissue lysate, using SLC16A1antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SLC16A1 antibody	Description: The protein encoded by this gene is a proton-linked monocarboxylate transporter that catalyzes the movement of many monocarboxylates, such as lactate and pyruvate, across the plasma membrane. Mutations in this gene are associated with erythrocyte lactate transporter defect. Alternatively spliced transcript variants have been found for this gene. Function: Proton-coupled monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate. Depending on the tissue and on cicumstances, mediates the import or export of lactic acid and ketone bodies. Required for normal nutrient assimilation, increase of white adipose tissue and body weight gain when on a high-fat diet. Plays a role in cellular responses to a high-fat diet by modulating the cellular levels of lactate and pyruvate, small molecules that contribute to the regulation of central metabolic pathways and insulin secretion, with concomitant effects on plasma insulin levels and blood glucose homeostasis. Subunit Structure: Interacts with EMB. Interaction with either BSG or EMB is required for expression at the cell membrane (By similarity). Interacts with BSG; this is required for expression at the cell membrane. Similarity: Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	262073007
NCBI GeneID	6566
NCBI Accession #	NP_001159968.1
NCBI GenBank Nucleotide #	NM_001166496.1
UniProt Accession #	P53985; Q49A45; Q5T8R6; Q9NSJ9
Molecular Weight	Observed: 54 kDa Predicted: 54 kDa
NCBI Official Full Name	monocarboxylate transporter 1
NCBI Official Synonym Full Names	solute carrier family 16 member 1
NCBI Official Symbol	SLC16A1
NCBI Official Synonym Symbols	MCT; HHF7; MCT1; MCT1D
NCBI Protein Information	monocarboxylate transporter 1
UniProt Protein Name	Monocarboxylate transporter 1

UniProt Gene Name	**SLC16A1**
UniProt Synonym Gene Names	MCT1; MCT 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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