SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-MCT2/HRP Conjugated antibody

Catalog Number: SL3995R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-MCT2/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human SLC16A7
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat
Background:	background: Tissues with few or no mitochondria, such as erythrocytes and tumor cells, depend largely on glycolysis to generate ATP. The major end products of glycolysis, pyruvate and lactate, must be eliminated from these cells to enable continued glycolytic flux and prevent toxic effects. H+/monocarboxylate transporters (MCTs) mediate the transport of lactate and pyruvate. Human MCT2 has a high affinity for the transport of pyruvate (summary by Lin et al., 1998 [PubMed 9786900]).[supplied by OMIM, Feb 2011]. **Function:** Proton-linked 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. MCT2 is a high affinity pyruvate transporter. **Subunit:** Interacts with GRID2IP. **Subcellular Location:** Cell membrane; Multi-pass membrane protein.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Tissue Specificity: High expression in testis, moderate to low in spleen, heart, kidney, pancreas, skeletal muscle, brain and Leukocyte. Restricted expression in normal tissues, but widely expressed in cancer cells. **Similarity:** Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family. **Database links:** **Entrez Gene:** 9194 Human Omim: 603654 Human **SwissProt:** O60669 Human **Unigene:** 439643 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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