SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MCT2 antibody

Catalog Number: SL22317R

FOR RESEARCH USE ONLY

[DATASHEET]

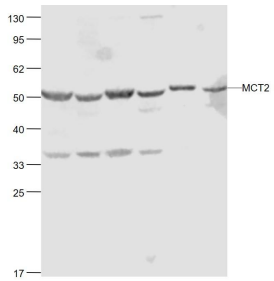
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MCT2
Immunogen:	KLH conjugated synthetic peptide derived from mouse MCT2 : 411-478/478 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat
Predicted MW.:	52kDa
Subcellular Location:	The cell membrane
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

[VALIDATION IMAGES]



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Cerebrum (Rat) Lysate at 40 ug
Cerebellum (Mouse) Lysate at 40 ug
Cerebellum (Rat) Lysate at 40 ug
Spinal cord (Mouse) Lysate at 40 ug
Spinal cord (Rat) Lysate at 40 ug
Primary: Anti-MCT2 (SL22317R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 53 kD
Observed band size: 50 kD

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