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MCT1/Monocarboxylic acid transporter 1 Rabbit mAb

Catalog No.: A28999 Recombinant

Basic Information

Observed MW
43 kDa

Calculated MW
53 kDa

Category
Primary antibody

Applications
WB,IF-F,IHC-P,ELISA

Cross-Reactivity
Mouse, Rat

CloneNo number
ARC82098

Background

Enables lactate transmembrane transporter activity. Involved in several processes, including plasma membrane lactate transport; pyruvate catabolic process; and regulation of insulin secretion. Located in plasma membrane. Is active in synapse. Is expressed in several structures, including alimentary system; brain; genitourinary system; integumental system; and sensory organ. Human ortholog(s) of this gene implicated in familial hyperinsulinemic hypoglycemia 7. Orthologous to human SLC16A1 (solute carrier family 16 member 1).

Recommended Dilutions

WB	1:2000 - 1:5000
IF-F	1:50 - 1:200
IHC-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
20501

Swiss Prot
P53985

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
Mct1

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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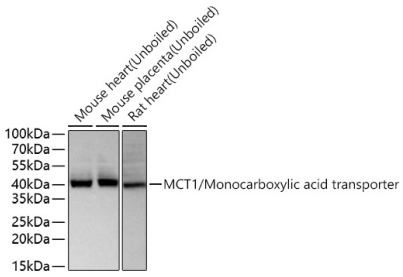
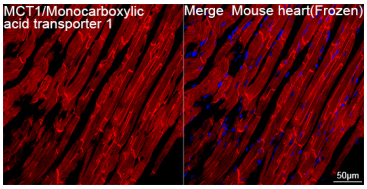
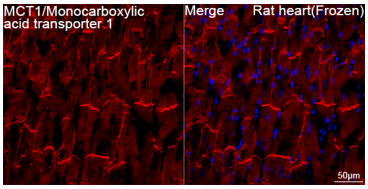
Validation Data



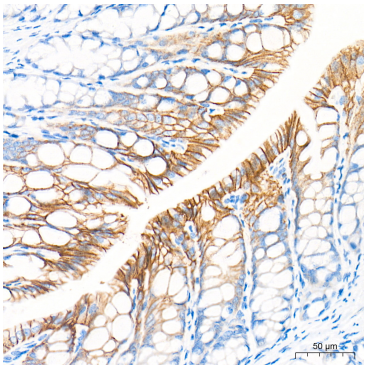
Western blot analysis of various lysates using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



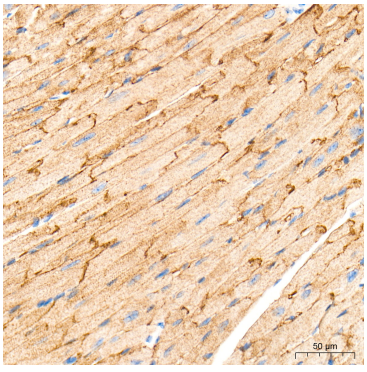
Confocal imaging of frozen sections of Mouse heart tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat heart tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



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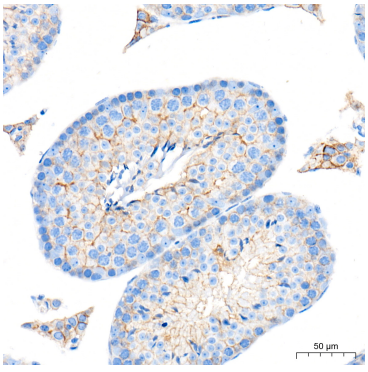
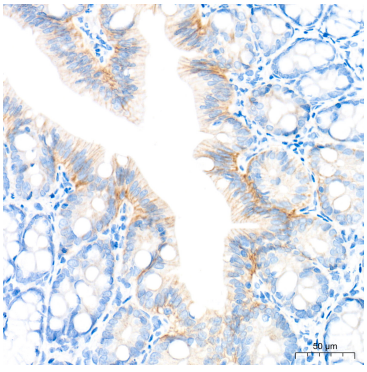
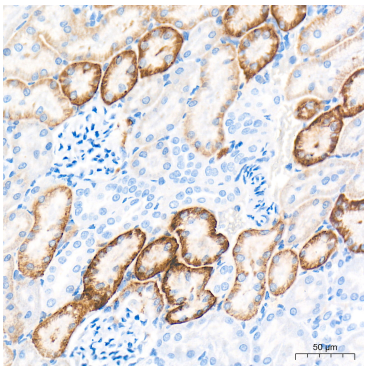


Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

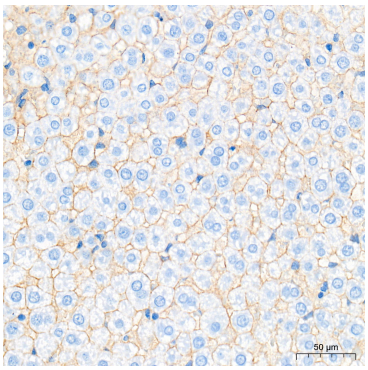


Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using MCT1/Monocarboxylic acid transporter 1 Rabbit mAb (A28999) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.