



Datasheet for ABIN1699603

## anti-MCTS1 antibody (AA 251-350) (Alexa Fluor 647)



[Go to Product page](#)

### 1 Image

#### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | MCTS1  |
| Binding Specificity: | AA 251-350   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This MCTS1 antibody is conjugated to Alexa Fluor 647   |
| Application:         | Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

#### Product Details

|                       |  |
|-----------------------|--|
| Immunogen:            | KLH conjugated synthetic peptide derived from human MCT1 |
| Isotype:              | IgG  |
| Predicted Reactivity: | Mouse,Rat,Dog,Cow,Pig,Horse,Rabbit,Guinea Pig            |
| Purification:         | Purified by Protein A.                                   |

#### Target Details

|                   |   |
|-------------------|---|
| Target:           | MCTS1   |
| Alternative Name: | MCT1 ( <a href="#">MCTS1 Products</a> )   |
| Background:       | Proton-coupled monocarboxylate transporter. Catalyzes the rapid transport across the plasma |

## Target Details

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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 circumstances, 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.

Subcellular location: Cell membrane

Synonyms: MCT, HHF7, MCT1, MCT1D, Monocarboxylate transporter 1, MCT 1, Solute carrier family 16 member 1, SLC16A1

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Gene ID: 6566

UniProt: [P53985](#)

## Application Details

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Application Notes: FCM 1:20-100  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

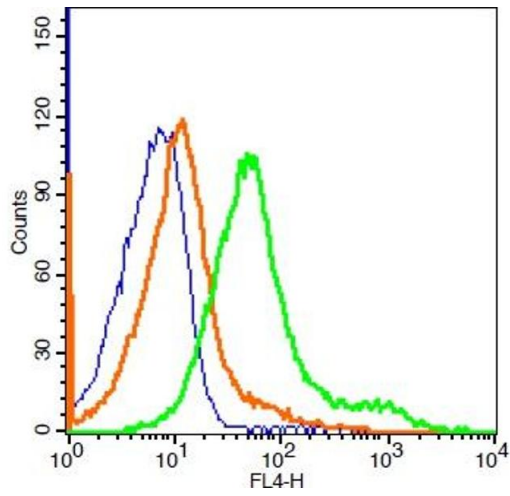
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C/-80 °C

Storage Comment: Store at -20°C, for long storage, store at -80°C. Avoid multiple freeze-thaw cycles

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### Western Blotting

**Image 1.** MCF-7 cells probed with MCT1 Polyclonal Antibody, ALEXA FLUOR® 647 Conjugated (bs-10249R-A647) at 1:100 for 30 minutes compared to control cells (blue) and isotype control (orange).