BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MCT4/SLC16A3 Antibody

Catalog Number: A05510-2

About SLC16A3

Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton-linked monocarboxylate transporter (MCT) family, which has been designated solute carrier family-16. Each MCT appears to have slightly different substrate and inhibitor specificities and transport kinetics, which are related to the metabolic requirements of the tissues in which it is found. The MCTs, which include MCT1 (SLC16A1; MIM 600682) and MCT2 (SLC16A7; MIM 603654), are characterized by 12 predicted transmembrane domains (Price et al., 1998 [PubMed 9425115]).

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Overview

Product Name	Anti-MCT4/SLC16A3 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-MCT4/SLC16A3 Antibody catalog # A05510-2. Tested in WB, IHC, ICC, IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg stabilizing protein and 50% glycerol *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt□-20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	O15427

Technical Details

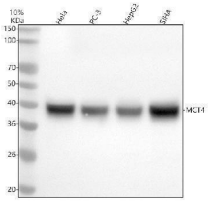
Immunogen	E.coli-derived human MCT4/SLC16A3 recombinant protein (Position: S398-V465).

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Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 Immunocytochemistry/Immunofluorescence, 1:50-400 Flow Cytometry (Fixed), 1-3ug/1x10^6 cells ELISA, 1:100-1000

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Anti-MCT4/SLC16A3 Antibody (A05510-2) Images



Western blot analysis of MCT4/SLC16A3 using anti-MCT4/SLC16A3 antibody (A05510-2). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human PC-3 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human SiHa whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MCT4/SLC16A3 antigen affinity purified polyclonal antibody (A05510-2) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for MCT4/SLC16A3 at approximately 40 kDa. The expected band size for MCT4/SLC16A3 is at 49 kDa.

Anti-MCT4/SLC16A3 Antibody

For Research Use Only. Not for use in diagnostic procedures.