Product Name: **MCT4 Rabbit Polyclonal Antibody**
Catalog #: **APRab13742**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:20000-1:40000
Molecular Weight	49kDa

Antigen Information

Gene Name	SLC16A3
Alternative Names	SLC16A3; MCT4; Monocarboxylate transporter 4; MCT 4; Solute carrier family 16 member 3
Gene ID	9123.0
SwissProt ID	O15427
Immunogen	The antiserum was produced against synthesized peptide derived from human MOT4. AA range:233-282

Background

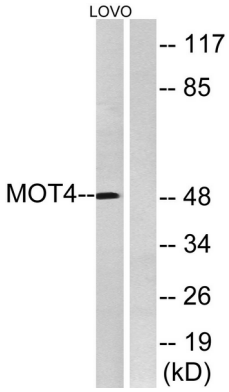
Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton-linked monocarboxylate

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]).[supplied by OMIM, Mar 2008],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.,similarity:Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family.,tissue specificity:Highly expressed in skeletal muscle.,

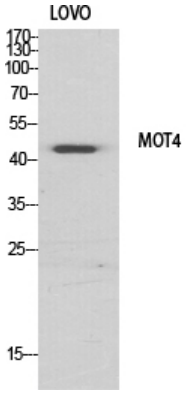
Research Area

Metabolism; Pathways and Processes; Metabolic signaling pathways; Carbohydrate metabolism; Signal Transduction; Plasma Membrane; Channels; Cancer; Cancer Metabolism

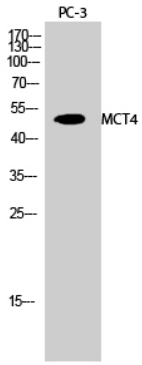
Image Data



Western blot analysis of lysates from LOVO cells, using MOT4 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using MCT4 Polyclonal Antibody diluted at 1:500



Western Blot analysis of PC-3 cells using MCT4 Polyclonal Antibody diluted at 1 : 500