

**Product Name: MCT4 Rabbit Polyclonal Antibody**  
**Catalog #: APRab13742**



## Summary

<b>Production Name</b>	MCT4 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

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

## Application

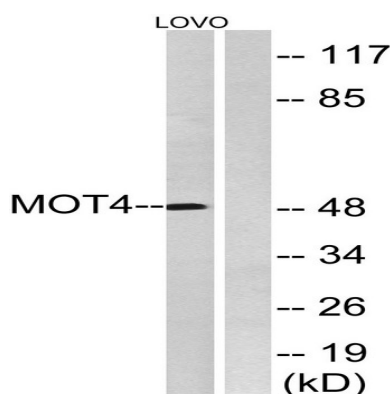
<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
<b>Molecular Weight</b>	49kD

## Background

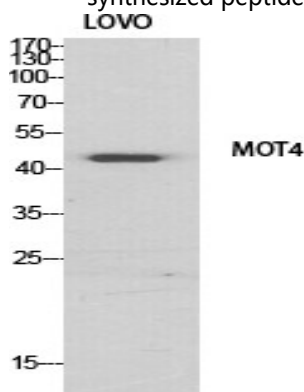
Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton-linked monocarboxylate transporter (MCT) family, which has been designated solute carrier family-16. Each MCT appears to have slightly different substrate and inhibitor specificities and transport kinetics, 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

## Image Data



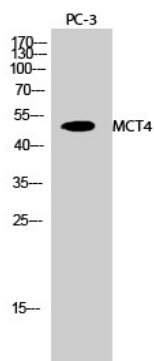
Western blot analysis of lysates from LOVO cells, using MOT4 Antibody. The lane on the right is blocked with the synthesized peptide.



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

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

**Note**

For research use only.