

For Research Use Only

# MLYCD Polyclonal antibody

Catalog Number: 15265-1-AP

Featured Product

23 Publications



## Basic Information

### Catalog Number:

15265-1-AP

### Size:

350 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7334

### GenBank Accession Number:

BC000286

### GeneID (NCBI):

23417

### UNIPROT ID:

O95822

### Full Name:

malonyl-CoA decarboxylase

### Calculated MW:

55 kDa

### Observed MW:

50-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2400

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : human testis tissue,

IP : mouse liver tissue,

IHC : human kidney tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

MLYCD, also named as MCD, is a 50-55 kDa protein. It is an enzyme that catalyzes the conversion of malonyl-CoA to acetyl-CoA. In the fatty acid biosynthesis MCD selectively removes malonyl-CoA and thus assures that methyl-malonyl-CoA is the only chain elongating substrate for fatty acid synthase and that fatty acids with multiple methyl side chains are produced. In peroxisomes it may be involved in degrading intraperoxisomal malonyl-CoA, which is generated by the peroxisomal beta-oxidation of odd chain-length dicarboxylic fatty acids. 66 kDa MLYCD protein has been identified in normal cell lines. Some patients give the 68-83 kDa smeary band. (PMID:12955715)

## Notable Publications

Author	Pubmed ID	Journal	Application
Haiyan Zhang	26394137	PLoS One	WB
Stephen W Standage	27881386	Am J Physiol Heart Circ Physiol	WB
Yong Liu	24872453	Proc Natl Acad Sci U S A	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

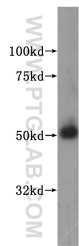
T: 4006900926

E: Proteintech-CN@ptglab.com

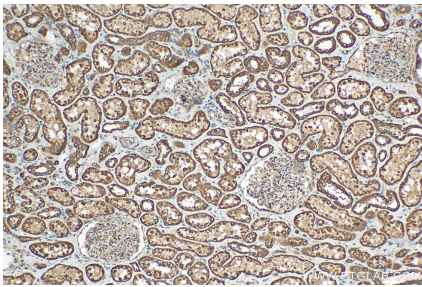
W: ptgcn.com

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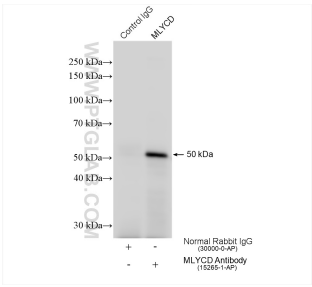
Selected Validation Data



human testis tissue were subjected to SDS PAGE followed by western blot with 15265-1-AP (MLYCD antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 15265-1-AP (MLYCD antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-MLYCD (IP:15265-1-AP, 4ug; Detection:15265-1-AP 1:1000) with mouse liver tissue lysate 1840 ug.