

For Research Use Only

MLYCD Polyclonal antibody

Catalog Number: 15265-1-AP

Featured Product

23 Publications



Basic Information

Catalog Number:

15265-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

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 ug 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

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

Positive Controls:

WB : human testis tissue,

IP : mouse liver tissue,

IHC : human kidney tissue,

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

*** 20ul sizes contain 0.1% BSA

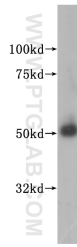
For technical support and original validation data for this product please contact:

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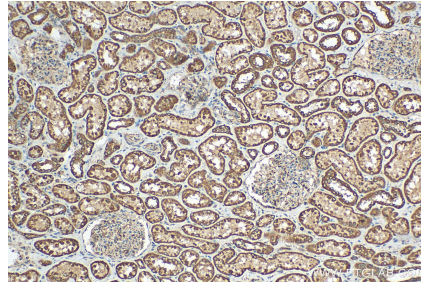
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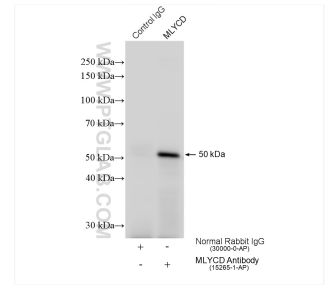
Selected Validation Data



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.