

For Research Use Only

# OXCT1 Monoclonal antibody

Catalog Number: 67836-1-Ig

Featured Product

3 Publications



## Basic Information

Catalog Number:

67836-1-Ig

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG24792

GenBank Accession Number:

BC009001

GeneID (NCBI):

5019

UNIPROT ID:

P55809

Full Name:

3-oxoacid CoA transferase 1

Calculated MW:

520 aa, 56 kDa

Observed MW:

52-56 kDa

Purification Method:

Protein G purification

CloneNo.:

1G1B9

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:500-1:2000

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat, pig, rabbit

Cited Species:

human

**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: rat heart tissue, HeLa cells, Jurkat cells, pig brain tissue, rat brain tissue, mouse brain tissue, rabbit brain tissue

IHC: rat brain tissue,

IF/ICC: MCF-7 cells, HeLa cells

FC (Intra): HeLa cells,

## Background Information

OXCT1 (also known as SCOT), encoded by nuclear gene, is a mitochondrial CoA transferase required for ketone body degradation. It catalyzes the transfer of CoA from succinyl-CoA to acetoacetate, generating acetoacetyl-CoA. OXCT1 is expressed in brain, heart, and skeletal muscle, but not in liver. This antibody specifically recognizes endogenous OXCT1. (21209089)

## Notable Publications

Author	Pubmed ID	Journal	Application
Dong Guo	39862868	Mol Cell	
Ken Ohno	39733149	Sci Rep	
Yasuhiro Kato	38923428	Cancer Med	WB

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

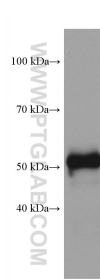
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

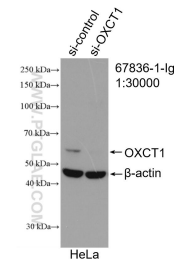
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

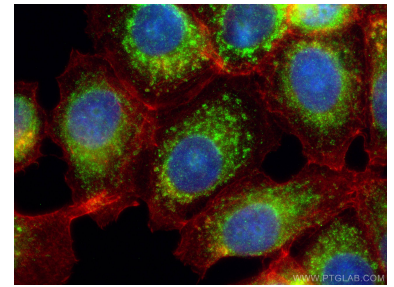
## Selected Validation Data



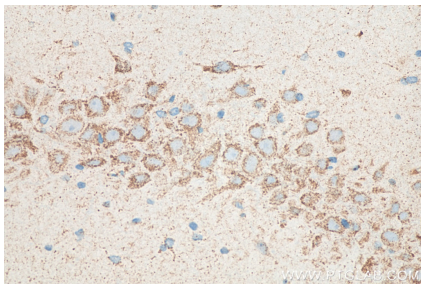
rat heart tissue were subjected to SDS PAGE followed by western blot with 67836-1-Ig (SCOT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



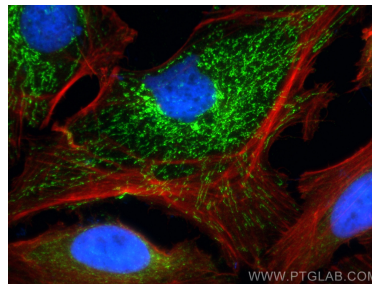
WB result of OXCT1 antibody (67836-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OXCT1 transfected HeLa cells.



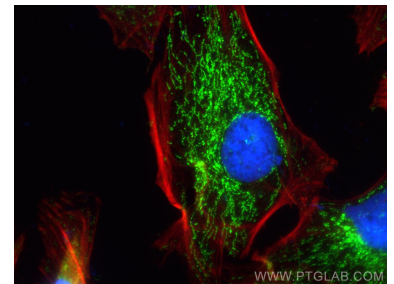
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using OXCT1 antibody (67836-1-Ig, Clone: 1G1B9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). CL594-Phalloidin (red).



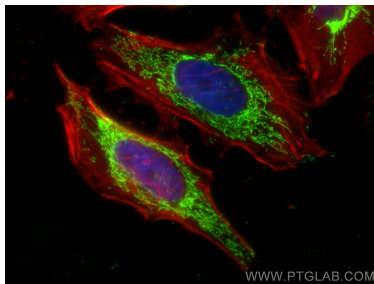
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67836-1-Ig (OXCT1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



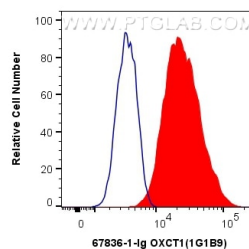
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OXCT1 antibody (67836-1-Ig, Clone: 1G1B9) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OXCT1 antibody (67836-1-Ig, Clone: 1G1B9) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OXCT1 antibody (67836-1-Ig, Clone: 1G1B9) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human OXCT1 (67836-1-Ig, Clone:1G1B9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).