

For Research Use Only

# OXCT1 Polyclonal antibody

Catalog Number: 12175-1-AP

Featured Product

52 Publications



## Basic Information

### Catalog Number:

12175-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2818

### 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:

56 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

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

IHC 1:50-1:500

IF/ICC 1:300-1:1200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, bovine

**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**: mouse brain tissue, HeLa cells, mouse skeletal muscle tissue, rat skeletal muscle tissue

**IP**: mouse brain tissue,

**IHC**: human gliomas tissue, mouse heart tissue, mouse brain tissue, human prostate cancer tissue

**IF/ICC**: HeLa cells, MCF-7 cells

## Background Information

3-oxoacid-CoA transferase 1 (OXCT1), 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
Nguyen Ngoc Trang	36184012	J Nutr Biochem	WB
De Huang	27644987	Cell Res	WB
Tim Düking	36112685	Sci Adv	WB,IF

## 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

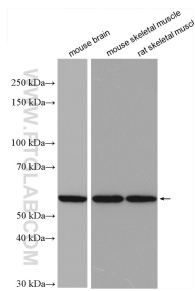
For technical support and original validation data for this product please contact:

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

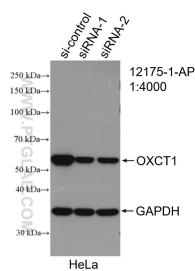
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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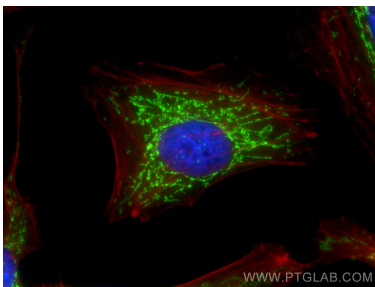
Selected Validation Data



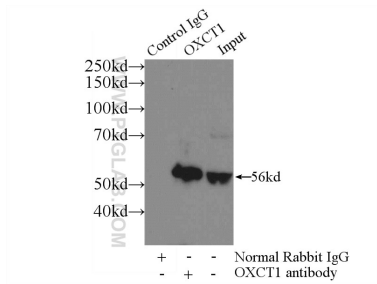
Various lysates were subjected to SDS PAGE followed by western blot with 12175-1-AP (OXCT1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



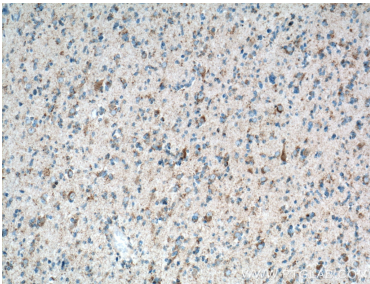
WB result of OXCT1 antibody (12175-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OXCT1 transfected HeLa cells.



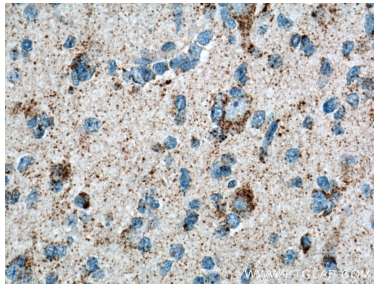
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OXCT1 antibody (12175-1-AP) at dilution of 1:600 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



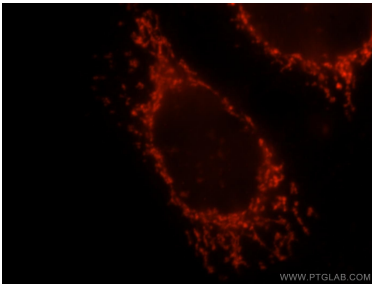
IP result of anti-OXCT1 (IP:12175-1-AP, 3ug; Detection:12175-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12175-1-AP (OXCT1 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12175-1-AP (OXCT1 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of MCF-7 cells, using OXCT1 antibody 12175-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).