

OXCT1 Polyclonal antibody

Catalog Number: 12175-1-AP

Featured Product

39 Publications

Basic Information

Catalog Number:

12175-1-AP

Size:

650 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:300-1:1200

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, 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: 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

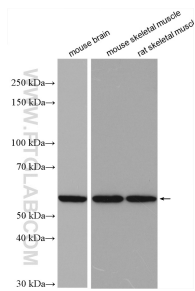
For technical support and original validation data for this product please contact:

T: 4006900926

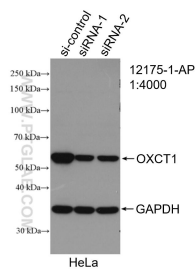
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

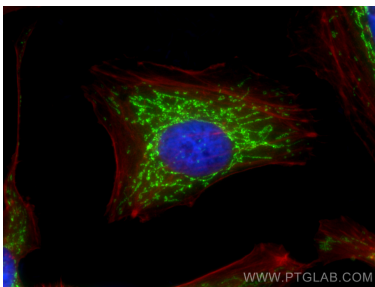
Selected Validation Data



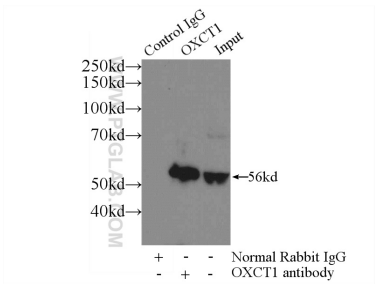
Various lysates were subjected to SDS PAGE followed by western blot with 12175-1-AP (OXCT1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



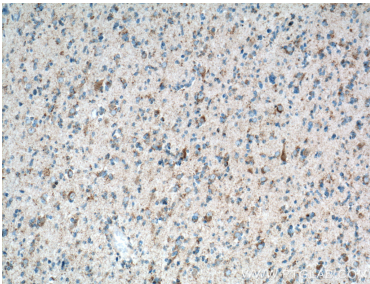
WB result of OXCT1 antibody (12175-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OXCT1 transfected HeLa cells.



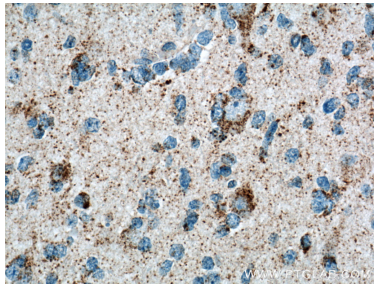
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OXCT1 antibody (12175-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



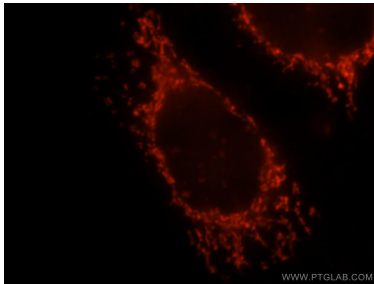
IP result of anti-OXCT1 (IP:12175-1-AP, 3ug; Detection:12175-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



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).