For Research Use Only

OXCT1 Monoclonal antibody

Catalog Number:67836-1-Ig Featured Product 2 Publications

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Basic Information

Catalog Number:
67836-1-Ig

Concentration:
500 μg/ml

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

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

Background Information

OXCT1 (also know 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

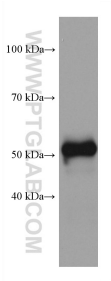
Author	Pubmed ID	Journal	Application
Dong Guo	39862868	Mol Cell	
Yasuhiro Kato	38923428	Cancer Med	WB

Storage

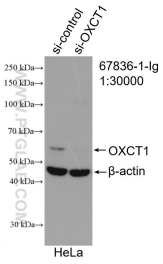
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

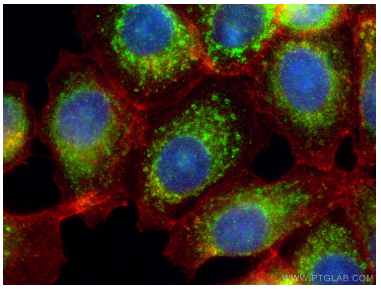
Selected Validation Data



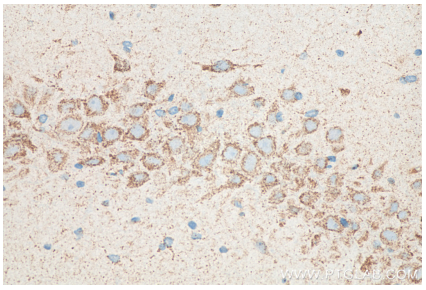
rat heart tissue were subjected to SDS PAGE followed by western blot with 67836-1-Ig (SCOT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



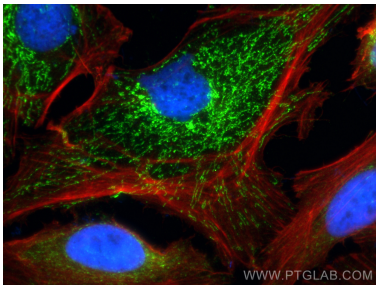
WB result of OXCT1 antibody (67836-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OXCT1 transfected HeLa cells.



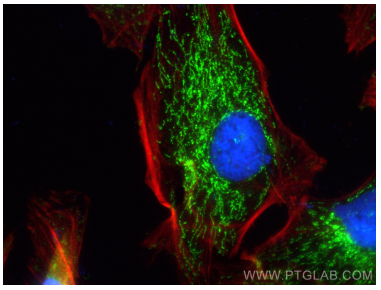
Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using OXCT1 antibody (67836-1-Ig, Clone: 1G1B9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L). CL594-Phalloidin (red).



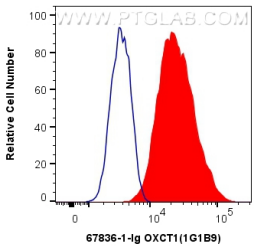
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 67836-1-Ig (OXCT1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 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 Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human OXCT1 (67836-1-Ig, Clone:1G1B9) and CoraLite®488-Conjugated 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).