

For Research Use Only

# PGC1a Monoclonal antibody

Catalog Number: 66369-1-Ig

Featured Product

510 Publications



## Basic Information

Catalog Number:

66369-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgG1

GenBank Accession Number:

NM\_013261

GeneID (NCBI):

10891

UNIPROT ID:

Q9UBK2

Full Name:

peroxisome proliferator-activated  
receptor gamma, coactivator 1 alpha

Calculated MW:

91 kDa

Observed MW:

70 kDa, 100 kDa

Purification Method:

Protein G purification

CloneNo.:

1C1B2

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:1000-1:4000

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, ELISA

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, pig, monkey, chicken, zebrafish,  
hamster, goat, ducks

Positive Controls:

WB : pig skeletal muscle tissue, HSC-T6 cells, rat  
skeletal muscle tissue, mouse skeletal muscle tissue

IF/ICC : HeLa cells,

## Background Information

PPARGC1A, also named as Peroxisome proliferator-activated receptor gamma coactivator 1-alpha, is a 798 amino acid protein, which contains 1 RRM (RNA recognition motif) domain and localizes in the nucleus. PPARGC1A is transcriptional coactivator for steroid receptors and nuclear receptors. PPARGC1A can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis and plays an essential role in metabolic reprogramming in response to dietary availability through coordination of the expression of a wide array of genes involved in glucose and fatty acid metabolism. PPARGC1A exists as an isoform in the liver and the molecular weight of it is 77 kDa. Except for a deletion of 127 amino acids at the N terminus, the protein, termed L-PGC-1  $\alpha$ , is identical to PGC-1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Peiyuan Li	34586803	J Agric Food Chem	WB
Zhuqing Li	34607159	Redox Biol	WB, IF
Xiaoqian Zeng	36169214	Food Funct	WB, IHC

## 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:

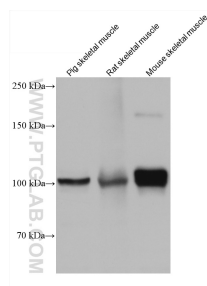
T: 4006900926

E: Proteintech-CN@ptglab.com

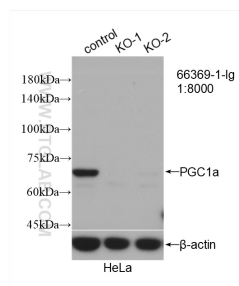
W: ptgcn.com

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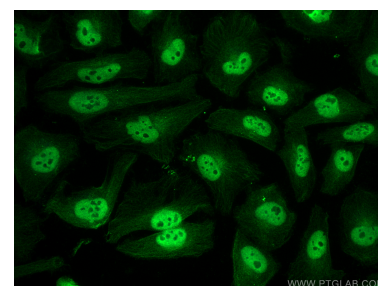
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66369-1-Ig (PGC1α antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of PGC1α antibody (66369-1-Ig; 1:8000; room temperature for 1.5 hours) with wild-type and PGC1α knockout HeLa cells.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PGC1α antibody (66369-1-Ig, Clone: 1C1B2) at dilution of 1:2000 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).