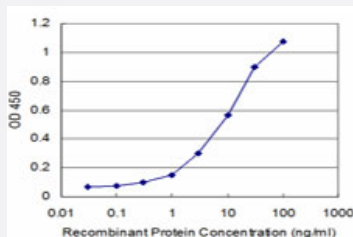


PPARGC1A monoclonal antibody (M02), clone 3B5

Catalog # H00010891-M02

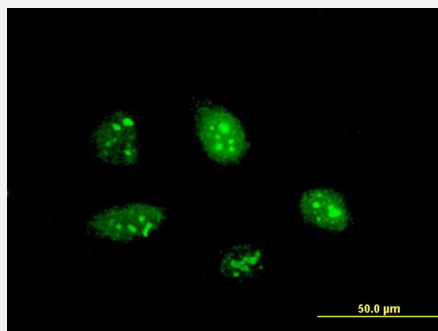
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PPARGC1A is approximately 0.3ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PPARGC1A on HeLa cell .
[antibody concentration 10 ug/ml]

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PPARGC1A.
Immunogen	PPARGC1A (NP_037393, 689 a.a. ~ 798 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	TRTELDRDFEVFGEIEECTVNLRDDGDSYGFITYRYTCDFAFAALENGYTLRRSNETDFELYFCGRK QFFKSNIYADLDSNSDDFDPASTKSKYDSLDFDSSLKEAQRSLRR
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence

Mouse (94); Rat (95)

Isotype

IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PPARGC1A is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PPARGC1A on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — PPARGC1A

Entrez GeneID[10891](#)**GeneBank Accession#**[NM_013261](#)**Protein Accession#**[NP_037393](#)**Gene Name**

PPARGC1A

Gene Alias

LEM6, PGC-1(alpha), PGC-1v, PGC1, PGC1A, PPARGC1

Gene Description

peroxisome proliferator-activated receptor gamma, coactivator 1 alpha

Omim ID[604517](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity. [provided by RefSeq]

Other Designations

OTTHUMP00000123372|PPAR gamma coactivator variant form|PPAR gamma coactivator-1|ligand effect modulator-6|peroxisome proliferative activated receptor, gamma, coactivator 1, alpha

Pathway

- [Adipocytokine signaling pathway](#)
- [Insulin signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Atherosclerosis](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Calcinosis](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)

- [Colorectal Neoplasms](#)
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- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [DNA Damage](#)
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- [Genetic Predisposition to Disease](#)
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- [Glucose Intolerance](#)
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- [Hyperinsulinism](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Hypertrophy](#)
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- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
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- [Osteoporosis](#)
- [Overweight](#)
- [Polycystic Ovary Syndrome](#)
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- [Schizophrenia](#)
- [Task Performance and Analysis](#)
- [Ventricular Dysfunction](#)
- [Weight Loss](#)
- [Werner syndrome](#)