

**PPARGC1A monoclonal antibody (M02), clone 3B5**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AT3396a**

## Specification

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### PPARGC1A monoclonal antibody (M02), clone 3B5 - Product Information

Application	IF, E
Primary Accession	<a href="#">O9UBK2</a>
Other Accession	<a href="#">NM_013261</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	91027

### PPARGC1A monoclonal antibody (M02), clone 3B5 - Additional Information

**Gene ID** 10891

#### Other Names

Peroxisome proliferator-activated receptor gamma coactivator 1-alpha, PGC-1-alpha, PPAR-gamma coactivator 1-alpha, PPARGC-1-alpha, Ligand effect modulator 6, PPARGC1A, LEM6, PGC1, PGC1A, PPARGC1

#### Target/Specificity

PPARGC1A (NP\_037393, 689 a.a. ~ 798 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### Storage

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

#### Precautions

PPARGC1A monoclonal antibody (M02), clone 3B5 is for research use only and not for use in diagnostic or therapeutic procedures.

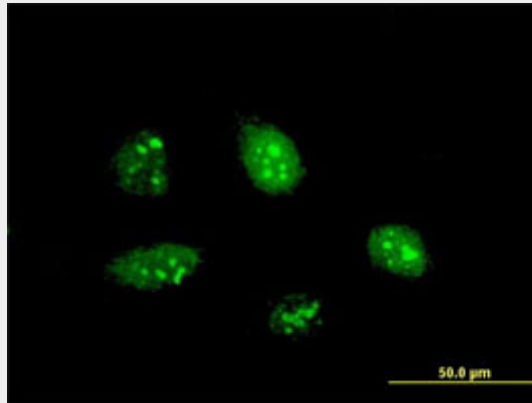
### PPARGC1A monoclonal antibody (M02), clone 3B5 - Protocols

Provided below are standard protocols that you may find useful for product applications.

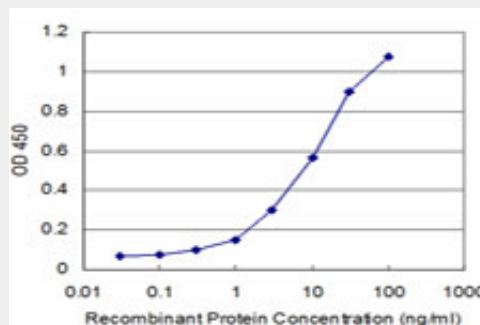
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PPARGC1A monoclonal antibody (M02), clone 3B5 - Images



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



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

### PPARGC1A monoclonal antibody (M02), clone 3B5 - Background

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.

### PPARGC1A monoclonal antibody (M02), clone 3B5 - References

Associations of markers in 11 obesity candidate genes with maximal weight loss and weight regain in the SOS bariatric surgery cases. Sarzynski MA, et al. *Int J Obes (Lond)*, 2010 Aug 24. PMID 20733583.COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. *Diabetes*, 2010 Aug 3. PMID 20682687.Pharmacogenetic analysis of lipid responses to rosuvastatin in Chinese patients. Hu M, et al. *Pharmacogenet Genomics*, 2010 Oct. PMID 20679960.An approach based on a genome-wide association study reveals candidate loci for

narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014. Mitochondrial biogenesis related endurance genotype score and sports performance in athletes. Eynon N, et al. Mitochondrion, 2010 Jul 18. PMID 20647061.