

For Research Use Only

# PPARGC1B Recombinant monoclonal antibody, PBS Only

Catalog Number:86997-1-PBS



## Basic Information

Catalog Number:

86997-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17566

GenBank Accession Number:

BC132971

GeneID (NCBI):

133522

UNIPROT ID:

Q86YN6

Full Name:

peroxisome proliferator-activated receptor gamma, coactivator 1 beta

Calculated MW:

1023 aa, 113 kDa

Observed MW:

100-110 kDa

Purification Method:

Protein A purification

CloneNo.:

252087B4

## Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, mouse

## Background Information

PPARGC1B (Peroxisome Proliferator-Activated Receptor Gamma Coactivator 1-Beta) is a transcriptional coactivator that plays a key role in the regulation of cellular energy metabolism, particularly in tissues with high metabolic demands such as the heart, skeletal muscle, liver, and brain. Encoded by the PPARGC1B gene in humans, it interacts with a variety of nuclear receptors and transcription factors, including PPARs, ERRs, and NRF1, to promote the expression of genes involved in mitochondrial biogenesis, oxidative phosphorylation, fatty acid oxidation, and glucose homeostasis. Unlike its close paralog PGC-1  $\alpha$ , PGC-1  $\beta$  is less responsive to physiological stimuli like cold exposure or exercise but is more constitutively expressed and tightly linked to lipid metabolism and reactive oxygen species (ROS) detoxification.

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

**The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$**

Storage Buffer:

PBS only, pH7.3

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

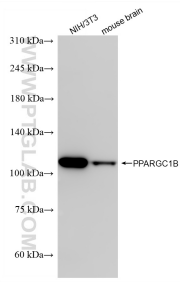
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

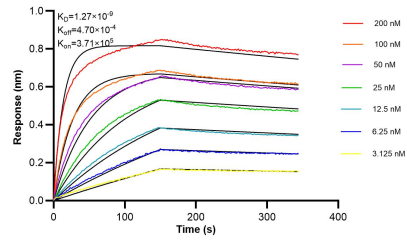
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86997-1-RR (PPARGC1B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86997-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86997-1-RR against Human PPP1R12B were performed. The affinity constant is 1.27 nM.