

For Research Use Only

PPARGC1B Recombinant monoclonal antibody

Catalog Number: 86997-1-RR



Basic Information

Catalog Number: 86997-1-RR	GenBank Accession Number: BC132971	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 133522	CloneNo.: 252087B4
Isotype: IgG	UNIPROT ID: Q86YN6	Recommended Dilutions: WB: 1:1000-1:6000
Immunogen Catalog Number: AG17566	Full Name: peroxisome proliferator-activated receptor gamma, coactivator 1 beta	
	Calculated MW: 1023 aa, 113 kDa	
	Observed MW: 100-110 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: NIH/3T3 cells, mouse brain tissue
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 α , PGC-1 β 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 -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:

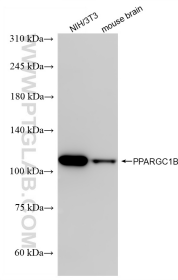
T: 4006900926

E: Proteintech-CN@ptglab.com

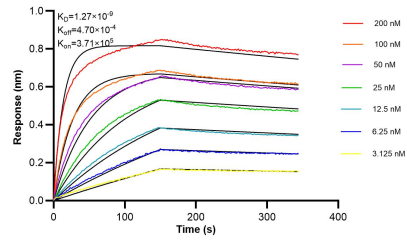
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Selected Validation Data



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.



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