



PGC1 β (ANT0094R) Rabbit mAb

CatalogNo: ANT8121 **Recombinant R**

Formulation: PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA
Quantity : 100 μ g/vial

Host Species

- Rabbit

MW

- 113kD (Calculated)
113kD (Observed)

Reactivity

- Human, Mouse, Rat,

Isotype

- IgG, Kappa

Applications

- WB, IF, IP, ELISA

Recommended Dilution Ratios

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0094R

Immunogen Information

Sequence PRGC2

Target Information

Specificity Endogenous

Gene name >>Insulin resistance

Protein Name PPARGC1B PERC PGC1 PGC1B PPARGC1

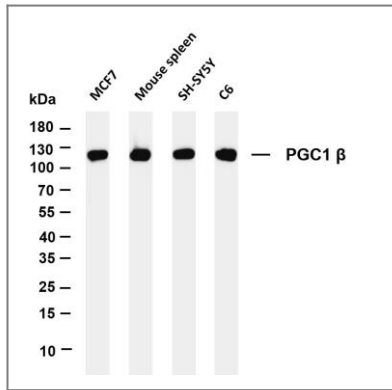
Organism	Gene ID	UniProt ID
Human	133522;	Q86YN6;
Mouse	170826;	Q8VHJ7;
Rat	291567;	Q811R2;

Cellular Nucleus
Localization

Tissue specificity Ubiquitous with higher expression in heart, brain and skeletal muscle.

Function Domain:Contains 2 Leu-Xaa-Xaa-Leu-Leu (LXXLL) motif, which are usually required for the association with nuclear receptors.,Function:Plays a role of stimulator of transcription factors and nuclear receptors activities. Activates transcriptional activity of estrogen receptor alpha, nuclear respiratory factor 1 (NRF1) and glucocorticoid receptor in the presence of glucocorticoids. May play a role in constitutive non-adrenergic-mediated mitochondrial biogenesis as suggested by increased basal oxygen consumption and mitochondrial number when overexpressed. May be involved in fat oxidation and non-oxidative glucose metabolism and in the regulation of energy expenditure.,induction:Repressed by saturated fatty acids such as palmitate and stearate in skeletal muscle cells. Induced by insulin and reduced by aging in skeletal muscle biopsies. Down-regulated in type 2 diabetes mellitus subjects as well as in pre-diabetics.,polymorphism:Variation of PPARGC1B may contribute to the pathogenesis of obesity, with a widespread Ala-203 allele being a risk factor for the development of this common disorders.,similarity:Contains 1 RRM (RNA recognition motif) domain.,subunit:Interacts with hepatocyte nuclear factor 4-alpha/HNF4A, Sterol regulatory binding transcription factor 1/SREBF1, PPAR-alpha/PPARA, thyroid hormone receptor beta/THRB and host cell factor/HCF1. Interacts with estrogen-related receptor gamma/ESRRG and alpha/ESRR (By similarity). Interacts with estrogen receptor alpha/ESR1.,tissue specificity:Ubiquitous with higher expression in heart, brain and skeletal muscle.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PGC1 β (ANT0094R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: MCF7 Lane 2: Mouse spleen Lane 3: SH-SY5Y Lane 4: C6
Predicted band size: 113kDa Observed band size: 113kDa

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