

PGC1 β Rabbit pAb

CatalogNo: YT7727

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, ELISA

MW

- 113kD (Calculated)

Isotype

- IgG

Storage

Storage*

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

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000**IHC 1:50-300****ELISA 1:2000-20000**

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from human PRGC2 AA range: 829-879

Specificity

This antibody detects endogenous levels of PRGC2 at Human/Mouse/Rat

Target Information

Gene name

PPARGC1B

Protein Name Peroxisome proliferator-activated receptor gamma coactivator 1-beta

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

Cellular Localization Nucleus .

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 transcritional 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/ESRRA (By similarity) . Interacts with estrogen receptor alpha/ESR1. ,tissue specificity:Ubiquitous with higher expression in heart , brain and skeletal muscle. ,

| Validation Data

| Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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