

PGC1 β (PT0194R) PT[®] Rabbit mAb

Catalog No :	AR1139
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IF;IP;ELISA
Gene Name :	>>Insulin resistance
Protein Name :	PPARGC1B PERC PGC1 PGC1B PPARGC1
Sequence :	PRGC2
Human Gene Id :	133522
Human Swiss Prot No :	Q86YN6
Mouse Gene Id :	170826
Mouse Swiss Prot No :	Q8VHJ7
Rat Gene Id :	291567
Rat Swiss Prot No :	Q811R2
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	113kD

Observed Band : 113kD

Background :

The protein encoded by this gene stimulates the activity of several transcription factors and nuclear receptors, including estrogen receptor alpha, nuclear respiratory factor 1, and glucocorticoid receptor. The encoded protein may be involved in fat oxidation, non-oxidative glucose metabolism, and the regulation of energy expenditure. This protein is downregulated in prediabetic and type 2 diabetes mellitus patients. Certain allelic variations in this gene increase the risk of the development of obesity. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010],

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 w

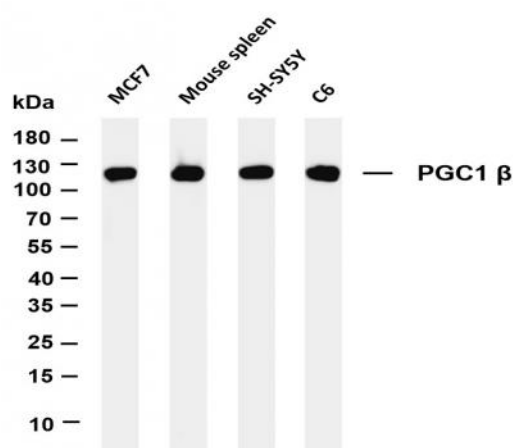
Subcellular Location :

Nucleus

Expression :

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

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PGC1 β (PT0194R) antibody. The HRP-conjugated 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