




Rabbit Anti-PPARGC1A antibody

SL1832R

Product Name:	PPARGC1A
Chinese Name:	过氧化物酶体增殖物激活受体 γ 辅激活子1 α 抗体
Alias:	LEM6; PGC-1 Alpha; PGC1 Alpha; Ligand effect modulator 6; Peroxisome proliferative activated receptor, gamma, coactivator 1 alpha; Peroxisome proliferative activated receptor, gamma, coactivator 1 ; Peroxisome proliferator activated receptor gamma coactivator 1 alpha; PGC 1 (alpha); PGC 1 alpha; PGC 1v; PGC1; PGC1(alpha); PGC1A; PGC1v; PPAR gamma coactivator 1 alpha 3 ligand effect modulator 6; PPAR gamma coactivator 1 alpha; PPAR gamma coactivator 1; PPAR gamma coactivator variant form; PPARGC 1 alpha.
文献引用 	Specific References(3) SL1832R has been referenced in 3 publications. [IF=4.02]Qin, Guohua, et al. "Sulfur dioxide inhalation stimulated mitochondrial biogenesis in rat brains." Toxicology 300.1 (2012): 67-74. WB;Rat. PubMed:22677886 [IF=13.03]Chen, Yue, et al. "Nanosilver Incurs an Adaptive Shunt of Energy Metabolism Mode to Glycolysis in Tumor and Non-Tumor Cells." ACS Nano (2014). WB;Human. PubMed:24810997 [IF=1.35]Hui, Yan, et al. "Resveratrol improves mitochondrial function in the remnant kidney from 5/6 nephrectomized rats." Acta Histochemica (2017). WB;Rat. PubMed:28434671
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair)

	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	88kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PGC-1:601-700/798
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity (referenced from entrez gene).</p> <p>Function: Transcriptional coactivator for steroid receptors and nuclear receptors. Greatly increases the transcriptional activity of PPARG and thyroid hormone receptor on the uncoupling protein promoter. Can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis. Plays an essential role in metabolic reprogramming in response to dietary availability through coordination of the expression of a wide array of genes involved in glucose and fatty acid metabolism.</p> <p>Subunit: Binds MYBBP1A, which inhibits transcriptional activation by this protein. Interacts with PRDM16. Interacts with LRPPRC. Homooligomer. Interacts with LPIN1.</p> <p>Subcellular Location: Nucleus.</p> <p>Tissue Specificity: Heart, skeletal muscle, liver and kidney. Expressed at lower levels in brain and pancreas and at very low levels in the intestine and white adipose tissue. In skeletal muscle, levels were lower in obese than in lean subjects and fasting induced a 2-fold increase in levels in the skeletal muscle in obese subjects.</p>

Post-translational modifications:

phosphorylation by AMPK in skeletal muscle increases activation of its own promoter.
Phosphorylated by CLK2.

Heavily acetylated by GCN5 and biologically inactive under conditions of high nutrients. Deacetylated by SIRT1 in low nutrients/high NAD conditions.

Similarity:

Contains 1 RRM (RNA recognition motif) domain.

SWISS:

Q9UBK2

Gene ID:

10891

Database links:

[Entrez Gene: 422815](#)Chicken

[Entrez Gene: 338446](#)Cow

[Entrez Gene: 479127](#)Dog

[Entrez Gene: 10891](#)Human

[Entrez Gene: 19017](#)Mouse

[Entrez Gene: 497232](#)Pig

[Entrez Gene: 83516](#)Rat

[Omim: 604517](#)Human

[SwissProt: Q865B7](#)Cow

[SwissProt: Q9UBK2](#)Human

[SwissProt: O70343](#)Mouse

[SwissProt: Q865B6](#)Pig

[SwissProt: Q9QYK2](#)Rat

[Unigene: 527078](#)Human

[Unigene: 259072](#)Mouse

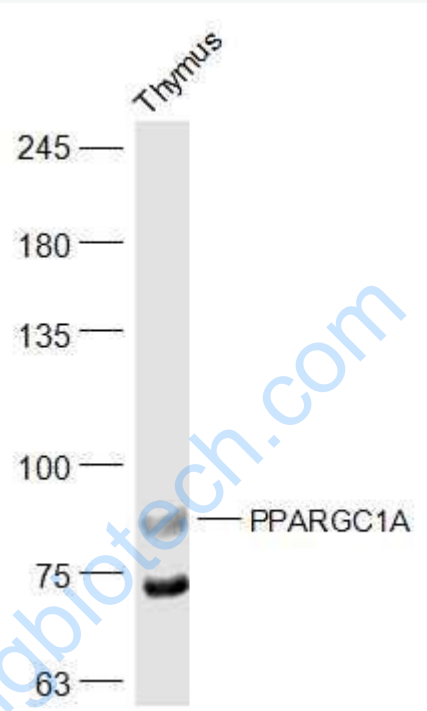
[Unigene: 19172](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PPARGC1A
1α是一个新发现的转录激活因子,起到高游离脂肪酸刺激胰岛α细胞分泌的重要调控作用。

Picture:



Sample:

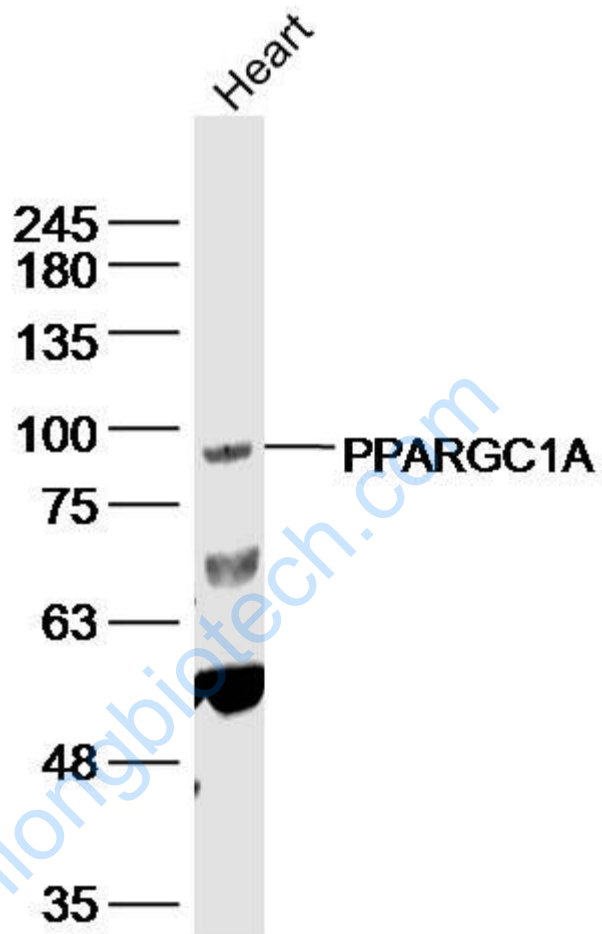
Thymus (Mouse) Lysate at 40 ug

Primary: Anti-PPARGC1A (SL1832R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 88 kD

Observed band size: 88 kD



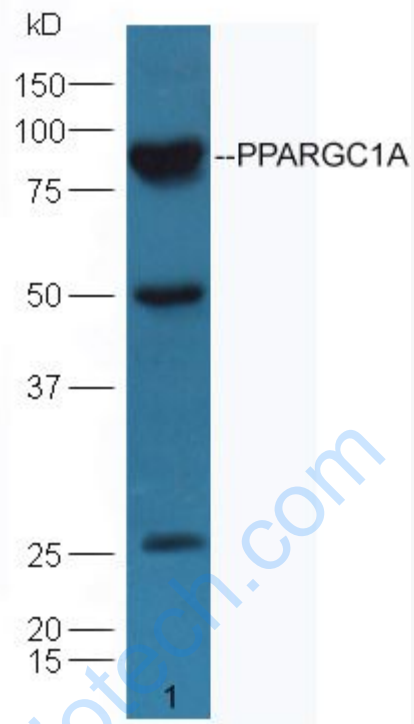
Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-PPARGC1A (SL1832R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 88 kD

Observed band size: 90 kD



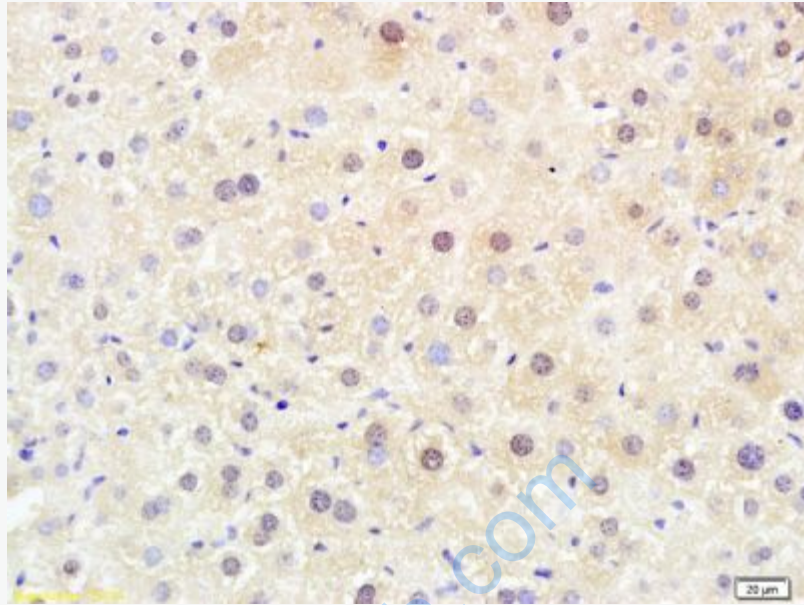
Sample: Heart (Mouse) Lysate at 30 ug

Primary: Anti- PPARGC1A (SL1832R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 88 kD

Observed band size: 88 kD



Tissue/cell: mouse liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-PPARGC1A/PGC1 alpha Polyclonal Antibody,
Unconjugated(SL1832R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining