



PPARGC1A blocking peptide (CDBP5947)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. [provided by RefSeq, Jul 2008]
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Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	PPARGC1A peroxisome proliferator-activated receptor gamma, coactivator 1 alpha [Homo sapiens (human)]
Official Symbol	PPARGC1A

Synonyms	PPARGC1A; peroxisome proliferator-activated receptor gamma, coactivator 1 alpha; LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1(alpha); peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC-1-alpha; L-PGC-1alpha; PPARGC-1-alpha; ligand effect modulator-6; PPAR gamma coactivator variant form; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcript variant B4; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcript variant B5; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcript variant B4-8a; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcript variant B5-NT; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcript variant B4-3ext
Entrez Gene ID	10891
mRNA Refseq	NM_013261
Protein Refseq	NP_037393
UniProt ID	Q9UBK2
Pathway	AMPK signaling pathway; ATF-2 transcription factor network; Activation of PPARGC1A (PGC-1alpha) by phosphorylation; Adipocytokine signaling pathway; Adipogenesis; BMAL1:CLOCK; Circadian Clock; Developmental Biology
Function	DNA binding; DNA binding; RNA binding; RNA polymerase II transcription cofactor activity; androgen receptor binding; chromatin DNA binding; ligand-dependent nuclear receptor binding; ligand-dependent nuclear receptor transcription coactivator activity; nucleotide binding; protein binding; sequence-specific DNA binding; transcription coactivator activity; transcription factor binding