



Rabbit Anti-PPARGC1A monoclonal antibody, clone KG10-82 (CABT-L901)

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

PRODUCT INFORMATION

Target	PGC1 alpha+beta
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	KG10-82
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB
Molecular Weight	113 kDa
Cellular Localization	Nucleus.
Positive Control	Mouse heart tissue, mouse kidney tissue, mouse brain tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

Transcription factors exert their effects by associating with co-activator or corepressor proteins. The co-activator complexes are thought to be constitutively active, requiring only proper positioning in the genome to initiate transcription. Co-activators include the steroid receptor coactivator (SRC) and CREB binding protein (CBP) families that contain histone acetyltransferase (HAT) activity, which modifies chromatin structure. PPARgamma co-activator-1 (PGC-1) is a transcriptional cofactor of nuclear respiratory factor-1 (NRF-1), PPARbeta, PPARalpha and other nuclear receptors that is induced by exposure to cold temperatures and is involved in regulating thermogenic gene expression, protein uncoupling, and mitochondrial biogenesis. PGC-1 has a low inherent transcriptional activity when it is not bound to a transcription factor. Docking of PGC-1 to PPARgamma stimulates an apparent conformational change that then enables PGC-1 to bind to and assemble into complexes, which include the additional cofactors SRC-1 and CBP/p300, and results in a large increase in transcriptional activity.

Keywords

LEM6;Ligand effect modulator 6;PERC;Peroxisome proliferative activated receptor, gamma, coactivator 1 alpha;Peroxisome proliferative activated receptor, gamma, coactivator 1;Peroxisome proliferator activated receptor gamma coactivator 1 alpha;peroxisome proliferator-activated receptor gamma coactivator 1 beta;Peroxisome proliferator-activated receptor gamma coactivator 1-alpha;Peroxisome proliferator-activated receptor gamma coactivator 1-beta;peroxisome proliferator-activated receptor gamma, coactivator 1 beta;PGC 1 (alpha);PGC 1 alpha;PGC 1v;PGC-1(beta);PGC-1-alpha;PGC-1-beta;PGC-1-related estrogen receptor alpha coactivator;PGC1;PGC1(alpha);PGC1A;PGC1v;PPAR gamma coactivator 1 alpha;PPAR gamma coactivator 1 alpha 3 ligand effect modulator 6;PPAR gamma coactivator 1;PPAR gamma coactivator variant form;PPAR gamma coactivator-1beta;PPAR-gamma coactivator 1-alpha;PPAR-gamma coactivator 1-beta;PPARGC 1 alpha;PPARGC-1-alpha;PPARGC-1-beta;PPARGC1;PPARGC1A;Ppargc1b;PRGC1_HUMAN;PRGC2_HUMAN antibody
