PGC-1 alpha Monoclonal Antibody

Catalog No: #27135

Package Size: #27135-1 50ul #27135-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

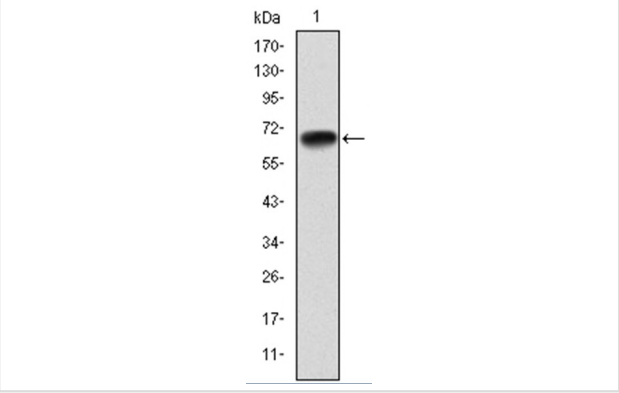
Product Name	PGC-1 alpha Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	Affinity-chromatography
Applications	ELISA WB
Species Reactivity	Human
Specificity	PGC-1alpha antibody detects endogenous levels of total PGC-1alpha
Immunogen Type	Recombinant Protein
Immunogen Description	Purified recombinant fragment of human PGC-1alpha expressed in E. Coli
Conjugates	Unconjugated
Target Name	PGC-1 alpha
Other Names	PPARGC1A; LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1(alpha)
Accession No.	Swiss-Prot#: Q9UBK2
SDS-PAGE MW	91KD
Concentration	1.0mg/ml
Formulation	Mouse IgG1 in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Storage	Store at -20°C/1 year

Application Details

ELISA: 1:10000

WB: 1:500 - 1:2000

Images



Western blot analysis using PGC-1alpha mAb against human PGC-1alpha (AA: 570-798) recombinant protein. (Expected MW is 70 kDa)

Background

The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPAR gamma, 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 homoeostasis, and the development of obesity.

Published Papers

Jiao Xueqiao;Liu Moqi;Li Rui;Li Jialu;Wang Lu;Niu Guowei;Wang Liming;Ji Xunming;Lv Chunmei;Guo Xiuhai el at., Helpful to Live Healthier? Intermittent Hypoxic/Ischemic Training Benefits Vascular Homeostasis and Lipid Metabolism with Activating SIRT1 Pathways in Overweight/Obese Individuals, , (2024)

PMID:

Yuwen Liu;Jiping Liu;Naping Hu;Zhengrong Li;Anqi Liu;Ruyue Luo;Siyu Du;Dongyan Guo;Jiankang Li;Jialin Duan el at., Classical prescription Daqinjiao decoction inhibit cerebral ischemia/reperfusion induced necroptosis and ferroptosis through multiple mechanisms., , (2025)

PMID:39736347