PGC1 alpha Polyclonal Antibody

Catalog No: #27583

Package Size: #27583-2 100ul #27583-1 50ul

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

Description

Product Name	PGC1 alpha Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	The antibody was purified by immunogen affinity chromatography.
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	KLH-conjugated synthetic peptide of human PGC1 alpha
Conjugates	Unconjugated
Other Names	PPARGC1A;LEM6;PGC-1(alpha);PGC-1alpha;PGC-1v;PGC1;PGC1A;PPARGC1;PPARG coactivator 1 alpha;PGC1 alpha
Accession No.	Uniprot:Q9UBK2GeneID:10891
Calculated MW	91KDa
SDS-PAGE MW	91KDa
Formulation	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol,and 0.01% sodium azide.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

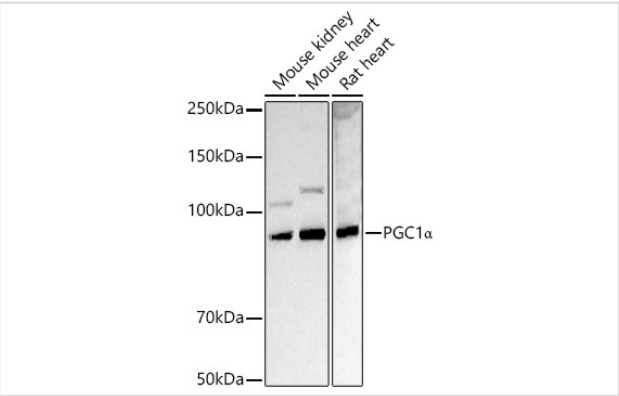
Application Details

WB 1:500 - 1:1000

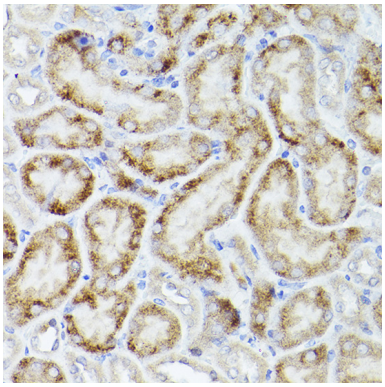
IHC 1:50 - 1:100

IF 1:50 - 1:100

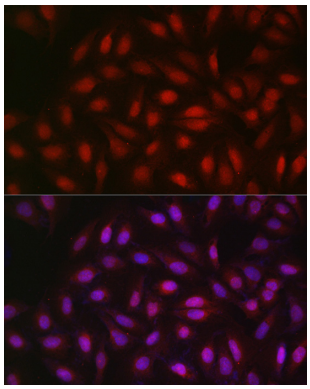
Images



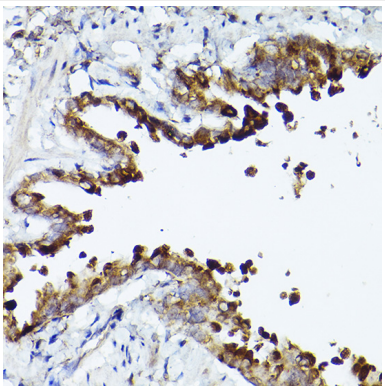
Western blot analysis of extracts of various cell lines, using PGC1oΩ½oΩ½ antibody.



Immunohistochemistry of paraffin-embedded mouse kidney using PGC1oΩ½oΩ½ Rabbit pAb.



Immunofluorescence analysis of U2OS cells using PGC1oΩ½oΩ½ Rabbit pAb.



Immunohistochemistry of paraffin-embedded rat lung using PGC1oΩ½oΩ½ Rabbit pAb.

Background

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 homoeostasis, and the development of obesity.

Published Papers

Xu Qian;Xinjian Li;Zhumei Shi;Xiaoming Bai;Yan Xia;Yanhua Zheng;Daqian Xu;Feng Chen;Yongping You;Jing Fang;Zhibin Hu;Qin Zhou;Zhimin Lu el at., KDM3A Senses Oxygen Availability to Regulate PGC-1α-Mediated Mitochondrial Biogenesis, , (2019)

PMID:31629659

Note: This product is for in vitro research use only and is not intended for use in humans or animals.