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Datasheet for ABIN7529539
anti-PPARGC1A antibody (C-Term)

7 Images

Overview

Quantity:	20 µL
Target:	PPARGC1A
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PPARGC1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	PGC1α Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 700 to the C-terminus of human PGC1alpha (NP_037393.1).
Sequence:	FGEIEECTVN LRDDGDSYGF ITYRYTCDAF AALENGYTLR RSNETDFELY FCGRKQFFKS NYADLDSNSD DFDPASTKSK YDSLDFDSSL KEAQRSLRR
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PPARGC1A
Alternative Name:	PPARGC1A (PPARGC1A Products)
Background:	<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.,PPARGC1A,LEM6,PGC-1(alpha),PGC-1alpha,PGC-1v,PGC1,PGC1A,PPARGC1,PPARG coactivator 1 alpha,PGC1 alpha,Epigenetics & Nuclear Signaling,Nuclear Receptor Signaling,Cancer,Signal Transduction,mTOR Signaling Pathway,Cell Biology & Developmental Biology,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial Biogenesis,Nucleotide metabolism,Molecular processes,AMPK Signaling Pathway,Endocrine and metabolic diseases,Diabetes,Obesity,Neuroscience,Neurodegenerative Diseases,Cardiovascular,Lipids,Fatty Acids,PPARGC1A</p>
Molecular Weight:	14kDa/30kDa/31kDa/33kDa/77kDa/89kDa/91kDa
Gene ID:	10891
UniProt:	Q9UBK2
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Carbohydrate Homeostasis , Regulation of Lipid Metabolism by PPARalpha , Regulation of Carbohydrate Metabolic Process , Smooth Muscle Cell Migration , Brown Fat Cell Differentiation

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide

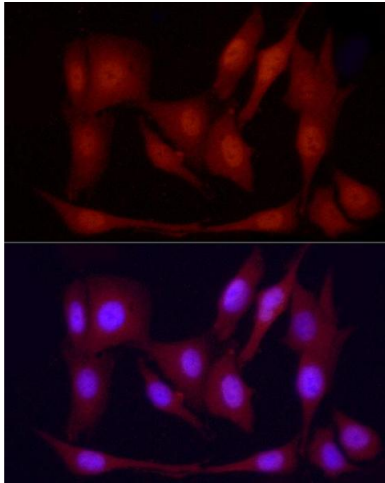
Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

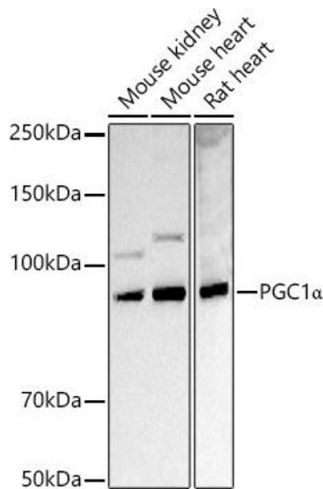
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



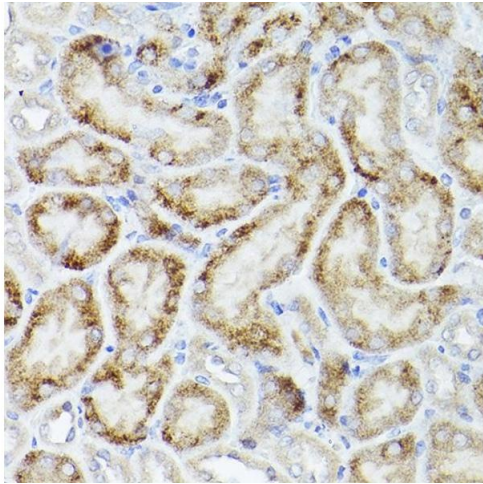
Immunofluorescence

Image 1. Immunofluorescence analysis of PC-12 cells using PGC1α Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PGC1α antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 5s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded mouse kidney using PGC1α Rabbit pAb at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN7529539.