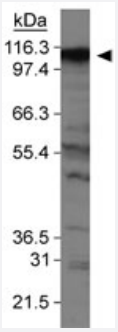
PPARGC1A polyclonal antibody

Catalog # PAB12061 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of PPARGC1A in human liver with PPARGC1A polyclonal antibody (Cat # PAB12061).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PPARGC1A.
Immunogen	A synthetic peptide corresponding to amino acids 400-550 of human PPARGC1A.
Host	Rabbit
Reactivity	Dog, Horse, Human, Mouse, Primates, Rat
Form	Liquid
Purification	Immunogen affinity purification
Recommend Usage	Immunofluorescence (1:1000) Immunohistochemistry (1:200-1:500) Immunoprecipitation Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

  Western blot analysis of PPARGC1A in human liver with PPARGC1A polyclonal antibody (Cat # PAB12061).

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

Gene Info — PPARGC1A

Entrez GeneID	10891
Protein Accession#	Q9UBK2
Gene Name	PPARGC1A
Gene Alias	LEM6, PGC-1(alpha), PGC-1v, PGC1, PGC1A, PPARGC1
Gene Description	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
Omim ID	604517
Gene Ontology	Hyperlink
Gene Summary	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 th is protein with multiple transcription factors. This protein can interact with, and regulate the activiti es 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 bi ogenesis, and is a major factor that regulates muscle fiber type determination. This protein may b e also involved in controlling blood pressure, regulating cellular cholesterol homoeostasis, and the development of obesity. [provided by RefSeq
Other Designations	OTTHUMP00000123372|PPAR gamma coactivator variant form|PPAR gamma coactivator-1|liga nd effect modulator-6|peroxisome proliferative activated receptor, gamma, coactivator 1, alpha

Publication Reference

- Loss of SQSTM1/p62 Induces Obesity and Exacerbates Alcohol-induced Liver Injury in Aged Mice.

  Hui Qian, Xiaojuan Chao, Shaogui Wang, Yuan Li, Xiaoxiao Jiang, Zhaoli Sun, Thomas Rülicke, Kurt Zatloukal , Hong-Min Ni , Wen-Xing Ding.

  Cellular and Molecular Gastroenterology and Hepatology 2023 Feb; 15(5):1027.

  Application: WB-Ti, Mouse, Mouse liver

- Loss of hepatic DRP1 exacerbates alcoholic hepatitis by inducing megamitochondria and mitochondrial maladaptation.

  Xiaowen Ma, Allen Chen, Luma Melo, Ana Clemente-Sanchez, Xiaojuan Chao, Ali Reza Ahmadi, Brandon Peiffer, Zhaoli Sun, Hiromi Sesaki, Tiangang Li, Xiaokun Wang, Wanqing Liu, Ramon Bataller, Hong-Min Ni, Wen-Xing Ding

  Hepatology 2022 Jul; 77(1):159.

  Application: WB, Mouse, Mouse liver

- Critical Role of TFEB-Mediated Lysosomal Biogenesis in Alcohol-Induced Pancreatitis in Mice and Humans.

  Wang S, Ni HM, Chao X, Ma X, Kolodecik T, De Lisle R, Ballabio A, Pacher P, Ding WX.

  Cellular and Molecular Gastroenterology and Hepatology 2020 Jan; 10(1):59.

  Application: WB-Ti, Mouse, Mouse pancreatic tissues

- Impaired TFEB-mediated Lysosome Biogenesis and Autophagy Promote Chronic Ethanol-induced Liver Injury and Steatosis in Mice.

  Chao X, Wang S, Zhao K, Li Y, Williams JA, Li T, Chavan H, Krishnamurthy P, He XC, Li L, Ballabio A, Ni HM, Ding WX.

  Gastroenterology 2018 May; [Epub].

  Application: WB-Ti, Mouse, Liver

- PGC-1alpha regulates the neuromuscular junction program and ameliorates Duchenne muscular dystrophy.

  Handschin C, Kobayashi YM, Chin S, Seale P, Campbell KP, Spiegelman BM.

  Genes & Development 2007 Apr; 21(7):770.

Pathway

- Adipocytokine signaling pathway
- Insulin signaling pathway

Disease

- Adenocarcinoma
- Alzheimer disease
- Anorexia Nervosa
- Atherosclerosis
- Bipolar Disorder
- Birth Weight
- Body Weight
- Breast cancer
- Breast Neoplasms
- Bulimia
- Calcinosis
- Cardiomyopathy
- Cardiovascular Diseases
- Carotid Stenosis
- Colorectal Neoplasms
- Coronary Artery Disease
- Diabetes
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- DNA Damage

- Edema
- Esophageal Neoplasms
- Fatty Liver
- Genetic Predisposition to Disease
- Glomerulonephritis
- Glucose Intolerance
- Glucose Metabolism Disorders
- Glycogen Storage Disease Type V
- Huntington disease
- Hyperinsulinism
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Inflammation
- Insulin Resistance
- Kidney Failure
- Metabolic Syndrome X
- Narcolepsy
- Neoplasms
- Obesity
- Osteoporosis
- Overweight
- Polycystic Ovary Syndrome
- Renal Insufficiency
- Sarcoidosis

- Schizophrenia
- Task Performance and Analysis
- Ventricular Dysfunction
- Weight Loss
- Werner syndrome