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Ppargc1a antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI11678

Product Information

Application	WB
Primary Accession	O70343
Other Accession	NM_008904, NP_032930
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Dog, Horse, Bovine, Sheep
Predicted	Human, Mouse, Rabbit, Pig, Goat, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90588

Additional Information

Gene ID	19017
Alias Symbol	A830037N07Rik, PGC-1, PGC-1v, Pgc-1alpha, Pgc1, Pgco1, Ppargc1, Gm11133, ENSMUSG00000079510
Other Names	Peroxisome proliferator-activated receptor gamma coactivator 1-alpha, PGC-1-alpha, PPAR-gamma coactivator 1-alpha, PPARGC-1-alpha, Ppargc1a, Pgc1, Pgc1a, Ppargc1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ppargc1a antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Ppargc1a antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

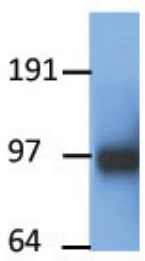
Name	Ppargc1a
Synonyms	Pgc1, Pgc1a, Ppargc1
Function	Transcriptional coactivator for steroid receptors and nuclear receptors (PubMed:12754525, PubMed:15744310, PubMed:23217713, PubMed:9529258). Greatly increases the transcriptional activity of PPARG and thyroid hormone receptor on the uncoupling protein promoter (PubMed:12754525, PubMed:15744310, PubMed:23217713, PubMed:9529258). Can regulate key mitochondrial genes that contribute to

	the program of adaptive thermogenesis (PubMed:12754525, PubMed:15744310, PubMed:23217713, PubMed:9529258). Plays an essential role in metabolic reprogramming in response to dietary availability through coordination of the expression of a wide array of genes involved in glucose and fatty acid metabolism (PubMed:12754525, PubMed:15744310, PubMed:23217713, PubMed:9529258). Acts as a key regulator of gluconeogenesis: stimulates hepatic gluconeogenesis by increasing the expression of gluconeogenic enzymes, and acting together with FOXO1 to promote the fasting gluconeogenic program (PubMed:12754525). Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner (By similarity). Also involved in the integration of the circadian rhythms and energy metabolism (PubMed:17476214). Required for oscillatory expression of clock genes, such as BMAL1 and NR1D1, through the coactivation of RORA and RORC, and metabolic genes, such as PDK4 and PEPCK (PubMed:17476214).
Cellular Location	Nucleus. Nucleus, PML body
Tissue Location	White quadriceps and red tibialis anterior (TA) muscles, liver, kidney and brown adipose tissue (at protein level) Skeletal muscle, brown adipose tissue, heart, kidney and brain

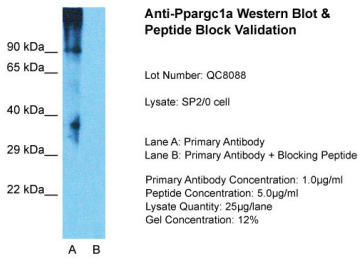
References

Finck,B.N. (2006) J. Clin. Invest. 116 (3), 615-622Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images

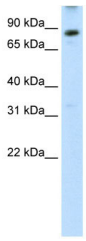


Ppargc1a antibody - middle region (AI11678) validated by WB using Transfected Melanoma Cell at 1:1000.



Host: Rabbit
Target Name:Ppargc1a
Sample Tissue:SP2/0
Lane A: Primary Antibody
Lane B: Primary Antibody + Blocking Peptide
Primary Antibody
Concentration:1µg/ml
Peptide Concentration: 5µg/ml
Lysate Quantity: 25ug/lane Gel
Concentration: 0.12%

WB Suggested Anti-Ppargc1a Antibody Titration: 0.2-1



µg/ml
ELISA Titer: 1:312500
Positive Control: SP2/0 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.