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Ppargc1a antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11479

Specification

Ppargc1a antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	O70343
Other Accession	NM_008904, NP_032930
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rabbit, Zebrafish, Pig, Chicken, Goat, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**90kDa KDa**

Ppargc1a antibody - C-terminal region - 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 - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Ppargc1a antibody - C-terminal region - Protein Information

Name Ppargc1a

Synonyms Pgc1, Pgc1a, Ppargc1

Function
Transcriptional coactivator for steroid receptors and nuclear receptors (PubMed:12754525, PubMed:<a

href="http://www.uniprot.org/citations/15744310" target="_blank">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

Ppargc1a antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Ppargc1a antibody - C-terminal region - Images

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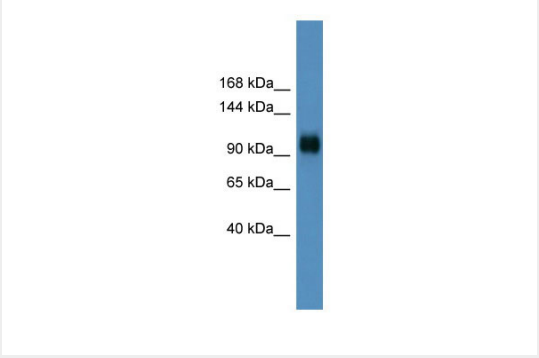

WB Suggested Anti-Ppargc1a Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Mouse Brain