

## Rabbit PGC1alpha Polyclonal Antibody | anti-PGC1alpha antibody

PGC1alpha Rabbit pAb

|                               |                       |                                                                               |
|-------------------------------|-----------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA281575</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|-------------------------------------------------------------------------------|

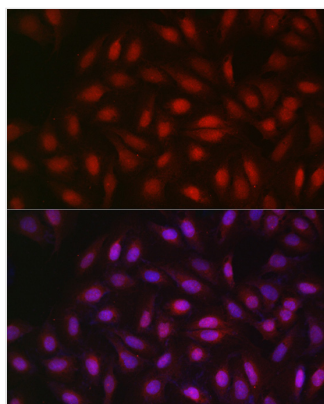
### PRODUCT SYNONYMS

PGC1alpha; Polyclonal Antibody; PGC1alpha Rabbit pAb; PPARGC1A; LEM6; PGC-1(alpha); PGC-1alpha; PGC-1v; PGC1; PGC1A; PPARGC1; PPARG coactivator 1 alpha; PGC1 alpha; anti-PGC1alpha antibody

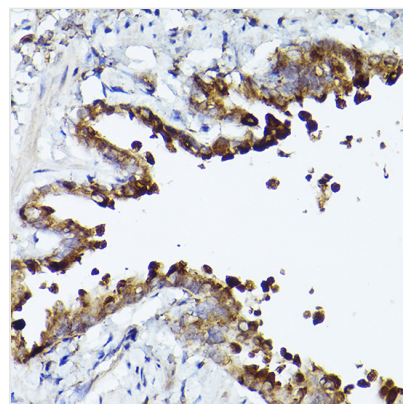
### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Host                                                | Rabbit                                                                                                                     |
| Clonality                                           | Polyclonal                                                                                                                 |
| Isotype                                             | IgG                                                                                                                        |
| Purity/Purification                                 | Affinity purification                                                                                                      |
| Form/Format                                         | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                                          |
| Sequence                                            | FGEIEECTVN LRDDGDSYGF ITYRYTCDAF AALENGYTLR RSNETDFELY FCGRKQFFKS NYADLDSNSD DFDPASTKSK YDSLDFDSSL KEAQRSLRR               |
| Applicable Applications for anti-PGC1alpha antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                     |
| Immunogen                                           | A synthetic peptide corresponding to a sequence within amino acids 700 to the C-terminus of human PGC1alpha (NP_037393.1). |
| Cellular Location                                   | Cytoplasm, Nucleus, PML body                                                                                               |
| Positive Samples                                    | Mouse skeletal muscle, Mouse kidney, Mouse heart, Rat heart                                                                |
| Species Reactivity/Cross-Reactivity                 | <b>Human, Mouse, Rat</b>                                                                                                   |
| Preparation and Storage                             | Store at -20 degree C. Avoid freeze / thaw cycles.   Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.             |

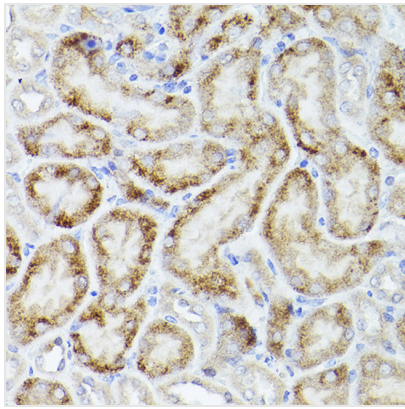
### IMAGES


**IF (Immunofluorescence)**

Immunofluorescence analysis of U2OS cells using PGC1α Rabbit pAb at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.

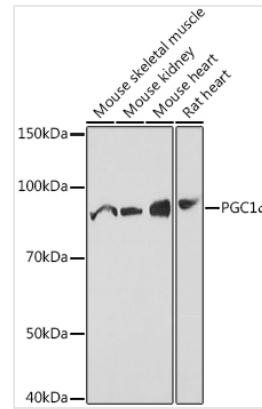

**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded rat lung 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.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse kidney using PGC1 $\alpha$ : 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.



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PGC1 $\alpha$  antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

### ADDITIONAL INFORMATION

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PGC1alpha antibody</b> | 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 homeostasis, and the development of obesity. |
| <b>Product Categories/Family for anti-PGC1alpha antibody</b>   | <a href="#">Signal Transduction</a> ; <a href="#">mTOR Signaling Pathway</a> ; <a href="#">Research</a> ; <a href="#">Endocrine &amp; Metabolism</a> ; <a href="#">Mitochondrial metabolism</a> ; <a href="#">Mitochondrial Biogenesis</a> ; <a href="#">Research</a> ; <a href="#">Endocrine &amp; Metabolism</a> ; <a href="#">Nucleotide metabolism</a> ; <a href="#">Molecular processes</a> ; <a href="#">Research</a> ; <a href="#">Endocrine &amp; Metabolism</a> ; <a href="#">AMPK Signali</a>                                                                                                                                                                                                                                                   |

### NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 7019499                                                                                                                                                                                                                                                         |
| <b>NCBI GeneID</b>                      | 10891                                                                                                                                                                                                                                                           |
| <b>NCBI Accession #</b>                 | NP_037393.1                                                                                                                                                                                                                                                     |
| <b>NCBI GenBank Nucleotide #</b>        | NM_013261.3                                                                                                                                                                                                                                                     |
| <b>UniProt Accession #</b>              | Q9UBK2; Q4W5M7; Q9UN32                                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>                 | Observed MW: 91 kDa<br>Calculated MW: 14kDa/30kDa/31kDa/33kDa/77kDa/89kDa/91kDa                                                                                                                                                                                 |
| <b>NCBI Official Full Name</b>          | peroxisome proliferator-activated receptor gamma coactivator 1-alpha                                                                                                                                                                                            |
| <b>NCBI Official Synonym Full Names</b> | peroxisome proliferator-activated receptor gamma, coactivator 1 alpha                                                                                                                                                                                           |
| <b>NCBI Official Symbol</b>             | PPARGC1A                                                                                                                                                                                                                                                        |
| <b>NCBI Official Synonym Symbols</b>    | LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1(alpha)                                                                                                                                                                                                                |
| <b>NCBI Protein Information</b>         | peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC-1-alpha; L-PGC-1alpha; PPARGC-1-alpha; ligand effect modulator-6; PPAR gamma coactivator variant form; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcrip |
| <b>UniProt Protein Name</b>             | Peroxisome proliferator-activated receptor gamma coactivator 1-alpha                                                                                                                                                                                            |
| <b>UniProt Gene Name</b>                | <b>PPARGC1A</b>                                                                                                                                                                                                                                                 |
| <b>UniProt Synonym Gene Names</b>       | LEM6; PGC1; PGC1A; PPARGC1; PGC-1-alpha; PPAR-gamma coactivator 1-alpha                                                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pgc1alpha-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/281575>