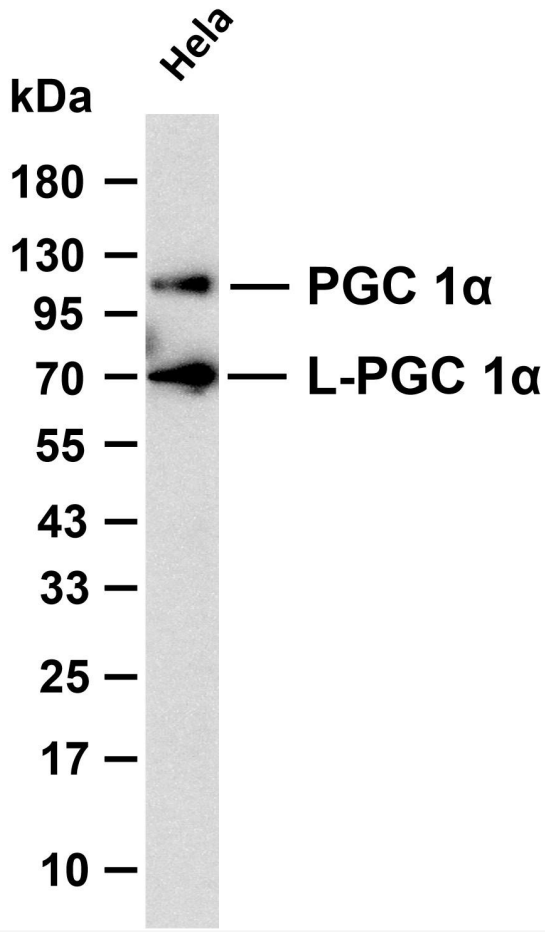
# PGC 1α Mouse mAb

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| **Catalog No** | YP-Ab-19589 |
| **Isotype** | IgG |
| **Reactivity** | Human,Mouse,Rat |
| **Applications** | WB、ICC/IF、ELISA |
| **Gene Name** | PPARGC1A |
| **Immunogen** | The specific immunogen used to produce this antibody is proprietary information. |
| **Specificity** | Endogenous |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |
| **Source** | Monoclonal,Mouse,IgG |
| **Purification** | Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein G affinity chromatography. |
| **Dilution** | WB 1:500-1:2000; ICC/IF 1:200-1:1000; ELISA 1:5000-1:20000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Synonyms** | PPARGC1A;Peroxisome proliferator-activated receptor gamma coactivator 1-alp;PPARGC1A ; LEM6 ; PGC1 ; PGC1A ; PPARGC1 ; Peroxisome proliferator-activated receptor gamma coactivator 1-alpha ; PGC-1-alpha ; PPAR-gamma coactivator 1-alpha ; PPARGC-1-alpha ; Ligand effect modulator 6 |
| **Observed Band** | 113,70kD |
| **Calculated Molecular Weight** | 91kD |
| **Cell Pathway** | [Isoform 1]: Nucleus . Nucleus , PML body .; [Isoform B4]: Nucleus .; [Isoform B4-8a]: Cytoplasm . Nucleus .; [Isoform B5]: Nucleus . Nucleus , PML body .; [Isoform 9]: Nucleus . |
| **Tissue Specificity** | Heart , skeletal muscle , liver and kidney. Expressed at lower levels in brain and pancreas and at very low levels in the intestine and white adipose tissue. In skeletal muscle , levels were lower in obese than in lean subjects and fasting induced a 2-fold increase in levels in the skeletal muscle in obese subjects. |
| **Function** | Function:Transcriptional coactivator for steroid receptors and nuclear receptors. Greatly increases the transcriptional activity of PPARG and thyroid hormone receptor on the uncoupling protein promoter. Can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis. ,similarity:Contains 1 RRM (RNA recognition motif) domain. ,subunit:Binds MYBBP1A , which inhibits transcriptional activation by this protein (By similarity) . Interacts with LRPPRC. Homooligomer. ,tissue specificity:Heart , skeletal muscle |

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|---|---|
| | , liver and kidney. Expressed at lower levels in brain and pancreas and at very low levels in the intestine and white adipose tissue. In skeletal muscle , levels were lower in obese than in lean subjects and fasting induced a 2-fold increase in levels in the skeletal muscle in obese subjects. , |
| **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 homoeostasis , and the development of obesity. [provided by RefSeq , Jul 2008] , |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images

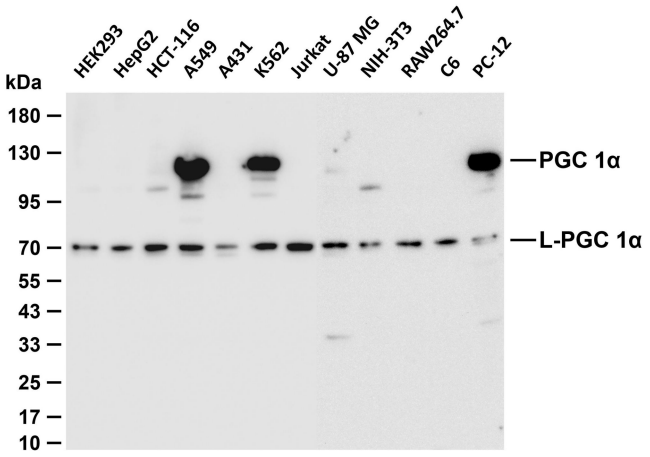



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was incubated with anti-PGC 1α antibody at a dilution of 1:1000. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody.

Lane 1: Hela

Predicted band size: 91kDa

Observed band size: 70kDa




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was incubated with anti-PGC 1α antibody at a dilution of 1:500. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody.

Lane 1: HEK293

Lane 2: HepG2

Lane 3: HCT-116

Lane 4: A549

Lane 5: A431

Lane 6: K562

Lane 7: Jurkat

Lane 8: U-87 MG

Lane 9: NIH-3T3

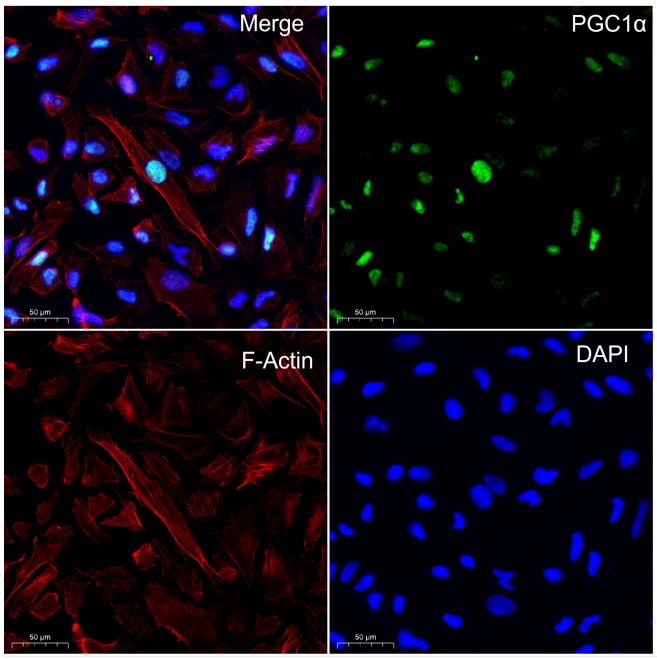
Lane 10: RAW264.7

Lane 11: C6

Lane 12: PC-12

Predicted band size: 91kDa

Observed band size: 113,70kDa




Immunofluorescence staining of PGC1α in HeLa cells. PGC1α (green, Alexa Fluor 488) was localized in the nucleus. F-Actin was stained with Phalloidin- 594 (red), and nuclei were counterstained with DAPI (blue). Scale bar = 50 μm.