Product **Datasheet**

# Anti-PGC1α Rabbit pAb

**WL02123**

For Research Use Only.Not For Use In Diagnostic Procedures

## Product Information

| | | |
|---|---|---|
| **Product name** | Anti-PGC1α Rabbit pAb | |
| **Source** | Rabbit | |
| **Species reactivity** | Human, Mouse, Rat | |
| **Tested applications** | WB | 1:1000-1:2000 |
| | IHC, IF | 1:50-1:200 |
| **Cellular localization** | Cytoplasm, Nucleus, PML body. | |
| **Pack size** | 50/100/200/500/1000μl | |
| **Storage** | Store at -20°C. Avoid freeze/thaw cycles. | |
| **Storage buffer** | Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide | |

## General Information

**Background**

PPARgamma co-activator-1 (PGC-1) is a transcriptional cofactor of nuclear respiratory factor-1 (NRF-1), PPARbeta, PPARalpha and other nuclear receptors that is induced by exposure to cold temperatures and is involved in regulating thermogenic gene expression, protein uncoupling, and mitochondrial biogenesis. PGC-1 has a low inherent transcriptional activity when it is not bound to a transcription factor. It may be also involved in controlling blood pressure, regulating cellular cholesterol homoeostasis, and the development of obesity.

**Immunogen**

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of PGC1α.

**Purification**

Polyclonal antibody was purified by Protein A affinity chromatography.



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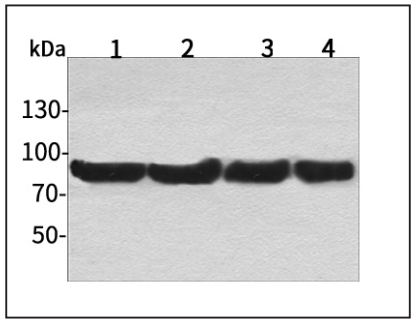
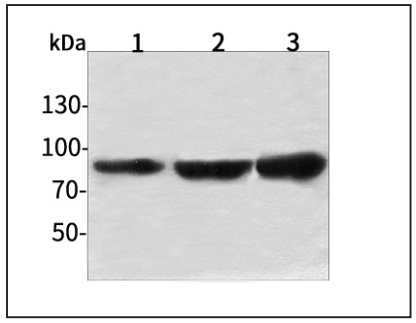
## Product Images



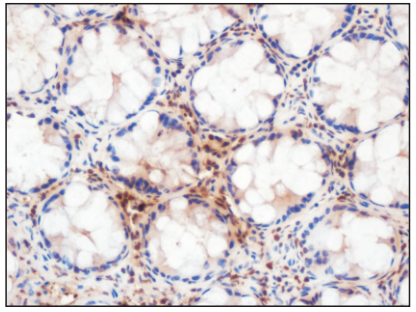

**Western blot-Anti-PGC1α pAb**

**Lane 1:** Human HepG2 cell lysate
**Lane 2:** Human Hela cell lysate
**Lane 3:** Human BGC-823 cell lysate
**Lane 4:** Human MGC-803 cell lysate
**All lanes:** Anti-PGC1α at 1:1000 dilution
Lysates/proteins at 20-50 μg per lane
Predicted band size: 91 kDa
Observed band size: 91-130 kDa




**Western blot-Anti-PGC1α pAb**

**Lane 1:** Mouse heart tissue lysate
**Lane 2:** Mouse liver tissue lysate
**Lane 3:** Rat brain tissue lysate
**All lanes:** Anti-PGC1α at 1:1000 dilution
Lysates/proteins at 20-50 μg per lane
Predicted band size: 91 kDa
Observed band size: 91-130 kDa



**Immunohistochemistry-Anti-PGC1α pAb**

**Sample:** Human colon cancer tissue
**Antigen retrieval:** pH 6.0 citrate buffer
**Primary antibody:** 1:200, 4°C, overnignt
**Secondary antibody-Biotin:** 1:150, 37°C, 1h
**Streptavidin-HRP:** 1:200, 37°C, 30min
**Color Developing:** DAB

*Wanleibio Co.,Ltd.* *400-602-0407* *sales@wanleibio.com* *www.wanleibio.com*

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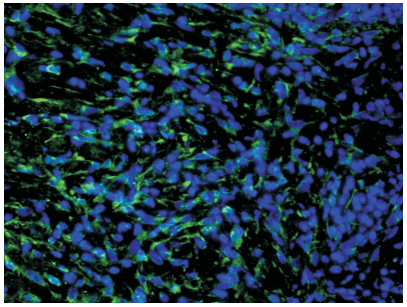
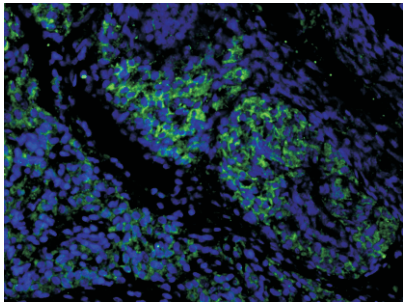


**Immunofluorescence-Anti-PGC1α pAb**

Immunofluorescence analysis of paraffin-embedded human lung adenocarcinoma using anti-PGC1α Rabbit Antibody at 1:50 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



**Immunofluorescence-Anti-PGC1α pAb**

Immunofluorescence analysis of paraffin-embedded rat ovary using anti-PGC1α Rabbit Antibody at 1:50 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0