

Anti-PGC1 alpha/beta Polyclonal Antibody

Product Details

| | |
|-------------------|--|
| Ig Type: | IgG |
| Reactivity: | Human,Rat (predicted:Mouse,Dog,Pig,Cow,Horse,Rabbit) |
| Molecular Weight: | Theoretical: 88/113 kDa. Actual: 113 kDa. |
| Purification: | Protein A purified |

Applications

- Blank control (Black line): Molt4 (Black).
Primary Antibody (green line): Rabbit Anti-PGC1 alpha+beta antibody (TMAB-01375)
Dilution: 1 μ g/ 10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647
Dilution: 1 μ g/test.

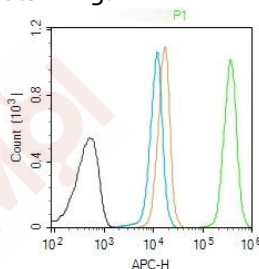
Protocol

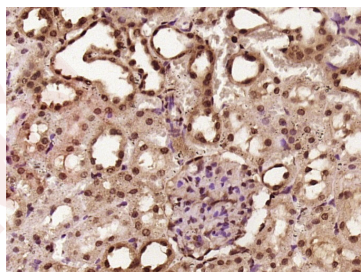
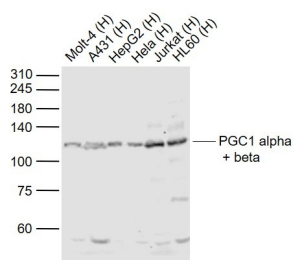
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

2. Sample:

- Verified Activity:
- Lane 1: Molt-4 (Human) Cell Lysate at 30 μ g
 - Lane 2: A431 (Human) Cell Lysate at 30 μ g
 - Lane 3: HepG2 (Human) Cell Lysate at 30 μ g
 - Lane 4: Hela (Human) Cell Lysate at 30 μ g
 - Lane 5: Jurkat (Human) Cell Lysate at 30 μ g
 - Lane 6: HL60 (Human) Cell Lysate at 30 μ g
- Primary: Anti-PGC1 alpha + beta (TMAB-01375) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 90/113 kDa
Observed band size: 113 kDa

- Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PGC1 alpha + beta) Polyclonal Antibody, Unconjugated (TMAB-01375) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human PGC1 alpha + beta

Antigen Species: Human

Gene ID: 10891

Uniprot ID: Q9UBK2

Synonyms: PPARGC1;PGC 1v;Ligand effect modulator 6;peroxisome proliferator-activated receptor gamma coactivator 1 beta;Ppargc1b;PPAR gamma coactivator variant form;PGC-1-beta;PPAR gamma coactivator-1beta;Peroxisome proliferative activated receptor, gamma, coactivator 1;LEM6; Peroxisome proliferative activated receptor, gamma, coactivator 1 alpha;PGC1α;PGC1A;PGC1;

PGC-1-alpha;PPARGC-1-beta;PPAR gamma coactivator 1 alpha;PGC-1(beta);PPARGC 1 alpha; PGC1 β;PRGC2;PPAR gamma coactivator 1;PGC1v;PERC;PPARGC1A;PGC1(alpha);PGC 1(alpha); PPAR-gamma coactivator 1-alpha;PPAR-gamma coactivator 1-beta;PGC-1-related estrogen receptor alpha coactivator;Peroxisome proliferator activated receptor gamma coactivator 1 alpha;PRGC1;PGC1 α;PPAR gamma coactivator 1 alpha 3 ligand effect modulator 6;PGC1β Diabetes associated, Metabolism, Co-activators/co-repressors, Estrogen, Other factors, Energy

Biology Area: Metabolism, Fatty acids, Mitochondrial markers, Fatty acid oxidation, Diabetes, Heart disease, Obesity, Energy Metabolism, Mitochondrial

Research 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 (referenced from entrez gene).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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