PGC1a
Monoclonal ANTIBODY
Catalog Number: 66369-1-Ig

Basic Information

- **Catalog Number**: 66369-1-Ig
- **GenBank Accession Number**: NM_013261
- **GeneID (NCBI)**: 10891
- **Immunogen Catalog Number**: GenBank Accession Number: NM_013261
- **Full Name**: peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
- **Calculated MW**: 91 kDa
- **Observed MW**: 100 kDa
- **Recommended Dilutions**:
  - WB: 1:1000-1:6000
  - IF: 1:50-1:500

Applications

- **Tested Applications**: IF, WB, ELISA
- **Cited Applications**: IHC, WB
- **Species Specificity**: human
- **Cited Species**: chicken, human, mouse, rat

Background Information

PPARGC1A, also named as Peroxisome proliferator-activated receptor gamma coactivator 1-alpha, is a 798 amino acid protein, which Contains 1 RRM (RNA recognition motif) domain and localizes in the nucleus. PPARGC1A is a transcriptional coactivator for steroid receptors and nuclear receptors. PPARGC1A can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis and 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. PPARGC1A exists as isoforms in the liver and the molecular weight of it is 77 kDa. Except for a deletion of 127 amino acids at the N terminus, the protein, termed L-PGC-1α, is identical to PGC-1.

Notable Publications

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<tr>
<td>Ina Dervishi</td>
<td>30280000</td>
<td>Sci Rep</td>
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<td>Bing Liu</td>
<td>30475443</td>
<td>Biochem Cell Biol</td>
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<td>Xinming Shen</td>
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Storage

- **Storage**: Store at -20°C. Stable for one year after shipment.
- **Storage Buffer**: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**
Western blot analysis of PPARGC1A in various cell lines and tissues using Proteintech antibody 66369-1-lg at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 66369-1-lg (PPARGC1A antibody) at dilution of 1:200 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).