

# PGC1 alpha Rabbit mAb

Catalog # AP78992

## Product Information

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Application	WB
Primary Accession	<a href="#">Q9UBK2</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	91027

## Additional Information

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Gene ID	10891
Other Names	PPARGC1A
Dilution	WB~~1/500-1/1000
Format	Liquid

## Protein Information

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Name	PPARGC1A
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Function	<p>Transcriptional coactivator for steroid receptors and nuclear receptors (PubMed:<a href="#">10713165</a>, PubMed:<a href="#">20005308</a>, PubMed:<a href="#">21376232</a>, PubMed:<a href="#">28363985</a>, PubMed:<a href="#">32433991</a>). Greatly increases the transcriptional activity of PPARG and thyroid hormone receptor on the uncoupling protein promoter (PubMed:<a href="#">10713165</a>, PubMed:<a href="#">20005308</a>, PubMed:<a href="#">21376232</a>). Can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis (PubMed:<a href="#">10713165</a>, PubMed:<a href="#">20005308</a>, PubMed:<a href="#">21376232</a>). 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 (PubMed:<a href="#">10713165</a>, PubMed:<a href="#">20005308</a>, PubMed:<a href="#">21376232</a>). Acts as a key regulator of gluconeogenesis: stimulates hepatic gluconeogenesis by increasing the expression of gluconeogenic enzymes, and acting together with FOXO1 to promote the fasting gluconeogenic program (PubMed:<a href="#">16753578</a>, PubMed:<a href="#">23142079</a>). Induces the expression of PERM1 in the skeletal muscle in an ESRRA- dependent manner (PubMed:<a href="#">23836911</a>). Also involved in the integration of the circadian rhythms and energy metabolism (By similarity). Required for oscillatory expression of clock genes, such as BMAL1 and NR1D1, through the coactivation of RORA and RORC, and metabolic genes, such as PDK4 and PEPCCK (By similarity).</p>
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Cellular Location	[Isoform 1]: Nucleus. Nucleus, PML body {ECO:0000250 UniProtKB:O70343}
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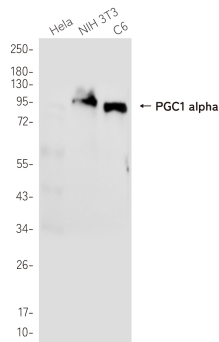
[Isoform B4-8a]: Cytoplasm. Nucleus [Isoform 9]: Nucleus

## Tissue Location

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

## Images

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