

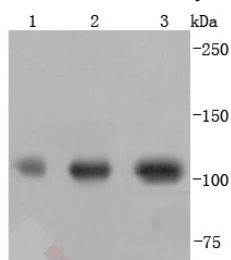
## Anti-PGC-1 alpha/PGC-1 beta Antibody (4J642)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 113 kDa.
Clone:	4J642
Purification:	ProA affinity purified

### Applications

Verified Activity: 1. Western blot analysis of PGC1 alpha+beta on different lysates using anti-PGC1 alpha+beta antibody at 1/1,000 dilution. Positive control: Lane 1: Mouse brain, Lane 2: Mouse heart, Lane 3: Mouse kidney.



Application:	WB
Recommended	WB: 1:1000

### 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:	Recombinant Protein
Uniprot ID:	Q9UBK2 & Q86YN6
Synonyms:	PPAR gamma coactivator variant form;PGC1v;PGC1 β;PPARGC-1-beta;PGC1 α;PPAR gamma coactivator 1;PGC 1(alpha);Peroxisome proliferative activated receptor, gamma, coactivator 1 alpha;Ligand effect modulator 6;PGC1;PRGC1;PPAR-gamma coactivator 1-alpha;PPARGC1; Peroxisome proliferator activated receptor gamma coactivator 1 alpha;PPAR gamma coactivator-1beta;PGC-1-beta;PPAR gamma coactivator 1 alpha 3 ligand effect modulator 6; PGC1A;PGC-1-related estrogen receptor alpha coactivator;LEM6;peroxisome proliferator-activated receptor gamma coactivator 1 beta;PPAR gamma coactivator 1 alpha;PGC1(alpha); PGC 1v;PGC-1-alpha;PGC-1(beta);PRGC2;PPARGC 1 alpha;PGC1β;PGC1α;PERC;Ppargc1b;PPAR-

gamma coactivator 1-beta; Peroxisome proliferative activated receptor, gamma, coactivator 1;  
PPARGC1A

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### Research Background

Transcription factors exert their effects by associating with co-activator or corepressor proteins. The co-activator complexes are thought to be constitutively active, requiring only proper positioning in the genome to initiate transcription. Co-activators include the steroid receptor coactivator (SRC) and CREB binding protein (CBP) families that contain histone acetyltransferase (HAT) activity, which modifies chromatin structure. 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. Docking of PGC-1 to PPARgamma stimulates an apparent conformational change that then enables PGC-1 to bind to and assemble into complexes, which include the additional cofactors SRC-1 and CBP/p300, and results in a large increase in transcriptional activity.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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