

Rabbit Methyl-PGC1 alpha Polyclonal Antibody | anti-Methyl-PGC1alpha antibody

Methyl-PGC1 alpha (Lys224) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329961	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (88%), Bovine (100%), Horse (100%), Rabbit (88%), Dog (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Methyl-PGC1 alpha; Polyclonal Antibody; Methyl-PGC1 alpha (Lys224) Antibody; L PGC 1alpha; LEM6; Ligand effect modulator 6; Peroxisome proliferative activated receptor gamma coactivator 1 alpha; Peroxisome proliferative activated receptor gamma coactivator 1; Peroxisome proliferator activated receptor gamma coactivator 1 alpha; Peroxisome proliferator activated receptor gamma coactivator 1 alpha transcript variant B4 3ext; Peroxisome proliferator activated receptor gamma coactivator 1 alpha transcript variant B4 8a; Peroxisome proliferator activated receptor gamma coactivator 1 alpha transcript variant B4; Peroxisome proliferator activated receptor gamma coactivator 1 alpha transcript variant B5; Peroxisome proliferator activated receptor gamma coactivator 1 alpha transcript variant B5 NT; Peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC 1 (alpha); PGC 1 alpha; PGC 1v; PGC-1-alpha; PGC1; PGC1 (alpha); PGC1A; PGC1v; PPAR gamma coactivator 1 alpha 3 ligand effect modulator 6; PPAR gamma coactivator 1 alpha; PPAR gamma coactivator 1; PPAR gamma coactivator variant form; PPAR-gamma coactivator 1-alpha; PPARGC 1 alpha; PPARGC-1-alpha; PPARGC1; PPARGC1A; PRGC1_HUMAN; anti-Methyl-PGC1alpha antibody

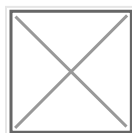
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (88%), Bovine (100%), Horse (100%), Rabbit (88%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Methyl-PGC1 alpha (K224) antibody detects endogenous levels of total Methyl-PGC1 alpha (K224). Tissue Specificity: 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.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Methyl-PGC1alpha antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Methyl-PGC1 alpha (K224), corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation by AMPK in skeletal muscle increases activation of its own promoter. Phosphorylated by CLK2.Heavily acetylated by GCN5 and biologically inactive under conditions of high nutrients. Deacetylated by SIRT1 in low nutrients/high NAD conditions.Ubiquitinated. Ubiquitination by RNF34 induces proteasomal degradation.
Subunit Structure	Homooligomer. Interacts with MYBBP1A; inhibits MYBBP1A transcriptional activation (By similarity). Interacts with PRDM16, LPIN1 and PML (By similarity). Interacts (via LXXLL motif) with RORA and RORC (via AF-2 motif); activates RORA and RORC transcriptional activation (By similarity). Interacts with LRPPRC. Interacts with RNF34 (via RING-type zinc finger).
Subcellular Location	Nucleus. Nucleus>PML body. Nucleus. Cytoplasm. Nucleus. Nucleus. Nucleus>PML body. Nucleus.

Preparation and Storage

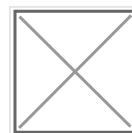
Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

Staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of Methyl-PGC1 alpha(K224) expression in Mouse brain lysates

ADDITIONAL INFORMATION

Related Product Information for anti-Methyl-PGC1alpha antibody

Transcriptional coactivator for steroid receptors and nuclear receptors. Greatly increases the transcriptional activity of PPARG and thyroid hormone receptor on the uncoupling protein promoter. Can regulate key mitochondrial genes that contribute to the program of adaptive thermogenesis. 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. Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner. Also involved in the integration of the circadian rhythms and energy metabolism. Required for oscillatory expression of clock genes, such as ARNTL/BMAL1 and NR1D1, through the coactivation of RORA and RORC, and metabolic genes, such as PDK4 and PEPCK.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7019499
NCBI GeneID	10891
NCBI Accession #	NP_037393.1
NCBI GenBank Nucleotide #	NM_013261.3
UniProt Accession #	Q9UBK2; Q4W5M7; Q9UN32
Molecular Weight	798
NCBI Official Full Name	peroxisome proliferator-activated receptor gamma coactivator 1-alpha
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
NCBI Official Symbol	PPARGC1A
NCBI Official Synonym Symbols	LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1(alpha)
NCBI Protein Information	peroxisome proliferator-activated receptor gamma coactivator 1-alpha; PGC-1-alpha; L-PGC-1alpha; PPARGC-1-alpha; ligand effect modulator-6; PPAR gamma coactivator variant form; peroxisome proliferator-activated receptor gamma coactivator 1 alpha transcrip
UniProt Protein Name	Peroxisome proliferator-activated receptor gamma coactivator 1-alpha
UniProt Gene Name	PPARGC1A
UniProt Synonym Gene Names	LEM6; PGC1; PGC1A; PPARGC1; PGC-1-alpha; PPAR-gamma coactivator 1-alpha
UniProt Entry Name	PRGC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/methyl-pgc1-alpha-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329961>