

Product datasheet

Anti-PGC1 alpha antibody ab84139

[1 References](#) [2 Images](#)

Overview

Product name	Anti-PGC1 alpha antibody
Description	Rabbit polyclonal to PGC1 alpha
Host species	Rabbit
Specificity	The immunogen sequence for this antibody is 47% homologous with PGC1 beta (Uniprot: Q86YN6).
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to a region within residues 250 and 300 of human PGC1 alpha (SwissProt entry Q9UBK2).
Positive control	Human stomach adenocarcinoma; human colon adenocarcinoma, ovarian carcinoma
General notes	This product may be covered by one or more of the following U.S. Patents. 6,166,192 6,426,411 6,525,178 6,872,391 6,908,987 7,250,283 7,091,006 7,354,738 8,105,774 8,445,233

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	Affinity purified using an epitope specific to PGC1 alpha immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

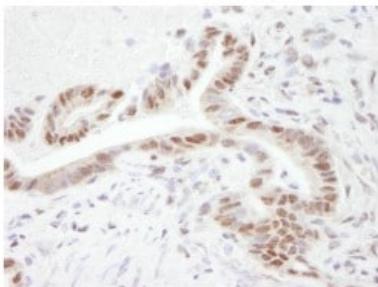
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab84139 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500.

Target

Function	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.
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.
Sequence similarities	Contains 1 RRM (RNA recognition motif) domain.
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.
Cellular localization	Cytoplasm. Nucleus; Nucleus and Nucleus. Nucleus, PML body.

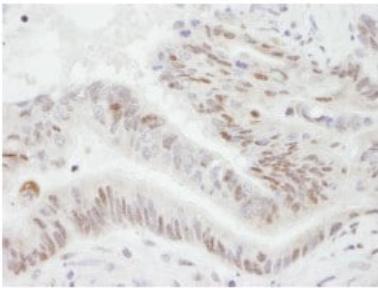
Images



ab84139, at a 1/250 dilution, staining PGC1 alpha in formalin fixed, paraffin embedded human stomach adenocarcinoma by Immunohistochemistry.

Detection: DAB

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGC1 alpha antibody (ab84139)



ab84139, at a 1/250 dilution, staining PGC1 alpha in formalin fixed, paraffin embedded human colon adenocarcinoma by Immunohistochemistry.

Detection: DAB

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGC1 alpha antibody (ab84139)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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