

### Anti-PGC1 alpha antibody [4A8] ab77210

★★★★☆ [2 Abreviews](#) [12 References](#) [画像数 3](#)

#### 製品の概要

製品名	Anti-PGC1 alpha antibody [4A8]
製品の詳細	Mouse monoclonal [4A8] to PGC1 alpha
由来種	Mouse
特異性	The immunogen sequence for this antibody is 55% homologous with PGC1 beta (Uniprot: Q86YN6).
アプリケーション	<b>適用あり:</b> WB, Flow Cyt
種交差性	<b>交差種:</b> Human, Recombinant fragment
免疫原	Recombinant fragment corresponding to Human PGC1 alpha aa 689-799. Database link: <a href="#">Q9UBK2</a>
ポジティブ・コントロール	PGC1 alpha transfected U2OS cell lysate
特記事項	<p>This product was changed from ascites to tissue culture supernatant on 12/3/19. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>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.</p> <p>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&amp;As</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.40 Constituents: PBS, 8% Sodium chloride, 0.6% Dibasic monohydrogen sodium phosphate, 0.2% Monobasic dihydrogen potassium phosphate, 0.2% Potassium chloride
精製度	Tissue culture supernatant
ポリ/モノ	モノクローナル

クローン名	4A8
アイソタイプ	IgG2b
軽鎖の種類	kappa

## アプリケーション

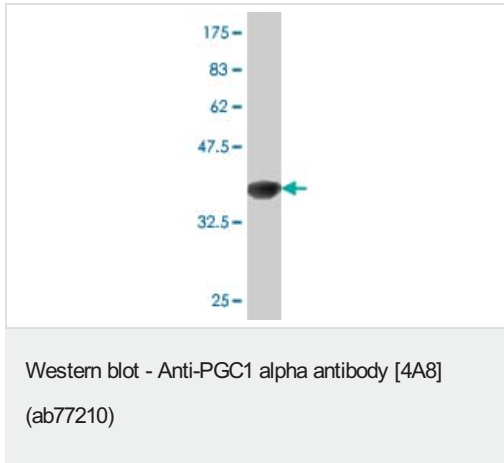
**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab77210の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	Use at an assay dependent concentration. Detects a band of approximately 91 kDa (predicted molecular weight: 91 kDa).
Flow Cyt		Use at an assay dependent concentration. <b>ab170192</b> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

## ターゲット情報

機能	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 PEPCCK.
組織特異性	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.
配列類似性	Contains 1 RRM (RNA recognition motif) domain.
翻訳後修飾	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.
細胞内局在	Cytoplasm. Nucleus; Nucleus and Nucleus. Nucleus, PML body.

## 画像



Anti-PGC1 alpha antibody [4A8] (ab77210) at 1 µg/ml +  
Recombinant fragment of human PGC1 alpha at 0.1 µg

#### Secondary

Goat anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

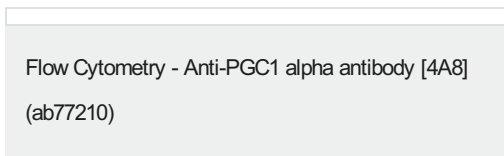
Developed using the ECL technique.

**Predicted band size:** 91 kDa

**Observed band size:** 38 kDa

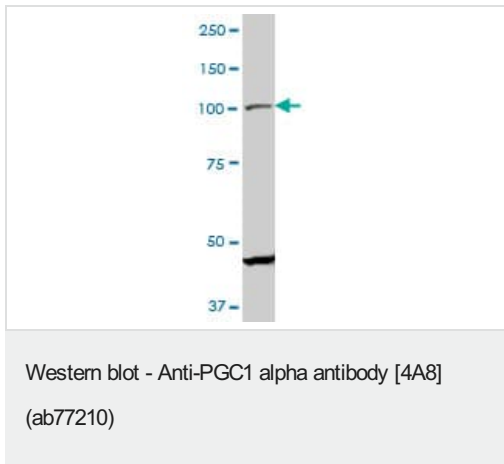
Western blot against tagged recombinant protein immunogen using ab77210 antibody at 1/500 dilution. Predicted band size of immunogen is 92kDa.

**This image was generated using the ascites version of the product.**



Overlay histogram showing HEK293 cells stained with ab77210 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab77210, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Tween used under the same conditions.

**This image was generated using the ascites version of the product.**



Anti-PGC1 alpha antibody [4A8] (ab77210) at 1 µg/ml + PGC1 alpha transfected U2OS cell lysate at 25 µg

#### Secondary

Goat anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

Developed using the ECL technique.

**Predicted band size:** 91 kDa

**Observed band size:** 91 kDa

**Additional bands at:** 45 kDa. We are unsure as to the identity of these extra bands.

**This image was generated using the ascites version of the product.**

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

#### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

#### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors