




Anti-PGC1 alpha + beta antibody - BSA and Azide free ab54481

★★★★★ [26 Abreviews](#) [491 References](#) [画像数 2](#)

製品の概要

製品名	Anti-PGC1 alpha + beta antibody - BSA and Azide free
製品の詳細	Rabbit polyclonal to PGC1 alpha + beta - BSA and Azide free
由来種	Rabbit
特異性	The immunogen sequence for this antibody was from PGC1 alpha, and is 78% homologous with PGC1 beta (Uniprot: Q86YN6), which this antibody also detects.
アプリケーション	適用あり: WB
種交差性	交差種: Mouse, Human 交差が予測される動物種: Horse, Chicken, Cow, Dog, Pig, Cynomolgus monkey, Rhesus monkey, Opossum 
免疫原	Synthetic peptide corresponding to Human PGC1 alpha + beta aa 750-850. Database link: Q9UBK2 <div>  Run BLAST with  Run BLAST with </div>
ポジティブ・コントロール	WB: Human PGC1 alpha recombinant cell lysate, Human PGC1 beta recombinant cell lysate, Human skeletal muscle cell lysate, Human heart cell lysate, Human kidney cell lysate
特記事項	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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
バッファー	Constituent: PBS
キャリア・フリー	はい
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

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ab54481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	★★★★☆ (21)	1/1000. Detects a band of approximately 105 kDa (predicted molecular weight: 92 kDa). Use of nuclear extracts for WB is recommended since protein is nuclear and expression within whole cell lysate can be low.

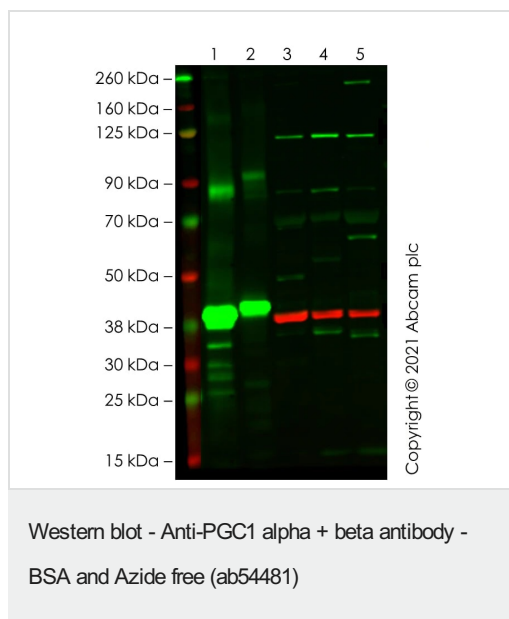
ターゲット情報

関連性

PGC1 alpha - The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity (referenced from entrez gene). PGC1 beta - Plays a role of stimulator of transcription factors and nuclear receptors activities. Activates transcriptional activity of estrogen receptor alpha, nuclear respiratory factor 1 (NRF1) and glucocorticoid receptor in the presence of glucocorticoids. May play a role in constitutive non-adrenergic-mediated mitochondrial biogenesis as suggested by increased basal oxygen consumption and mitochondrial number when overexpressed. May be involved in fat oxidation and non-oxidative glucose metabolism and in the regulation of energy expenditure.

細胞内局在 Nucleus

画像



All lanes : Anti-PGC1 alpha + beta antibody - BSA and Azide free (ab54481)

Lane 1 : Human PGC1 alpha recombinant (aa481-798) cell lysate at 0.1 µg

Lane 2 : Human PGC1 beta recombinant (aa550-1023) cell lysate at 0.1 µg

Lane 3 : Human skeletal muscle cell lysate at 20 µg

Lane 4 : Human heart cell lysate at 20 µg

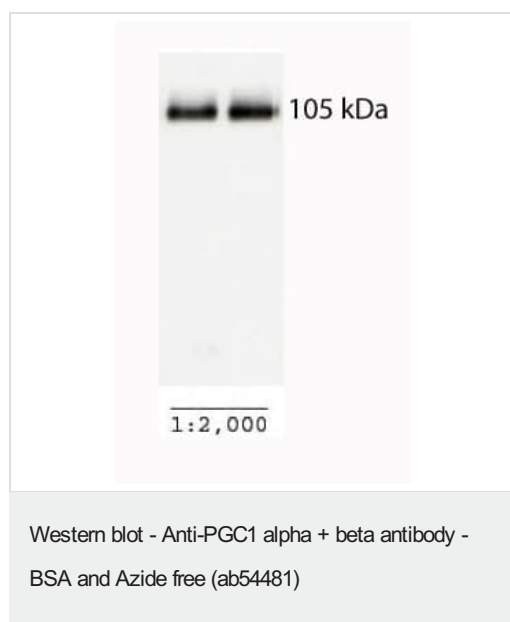
Lane 5 : Human kidney cell lysate at 20 µg

Secondary

All lanes : **ab216773** + **ab216778** at 1/20000 dilution

Predicted band size: 92 kDa

False colour image of Western blot: Anti-PGC1 alpha + beta antibody - BSA and Azide free staining at 1 µg/ml, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab54481 was shown to bind to PGC1 alpha and PGC1 beta. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Donkey anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216778**) at 1/20000 dilution.



All lanes : Anti-PGC1 alpha + beta antibody - BSA and Azide free (ab54481) at 1/2000 dilution

Lane 1 : Mouse Brown Adipose Tissue at 10 µg

Lane 2 : Mouse Brown Adipose Tissue at 20 µg

Predicted band size: 92 kDa

Observed band size: 105 kDa

Western blot using ab54481 at 1:2000 to detect PGC1 in Mouse brown adipose tissue whole cell extract (both lanes).

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

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