

Product datasheet

Anti-PGC1 beta antibody [EPR12370] ab176328

Recombinant RabMAb

★★★★★ **4 Abreviews** **40 References** [6 Images](#)

Overview

Product name	Anti-PGC1 beta antibody [EPR12370]
Description	Rabbit monoclonal [EPR12370] to PGC1 beta
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, MCF-7 and SH-SY5Y cell lysates and human fetal brain, human fetal heart, rat spleen and mouse spleen tissue lysates. IP: HeLa whole cell lysate (ab150035).
General notes	<p>This product may be covered by one or more of the following U.S. Patents.</p> <p>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</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.5% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12370
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab176328 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

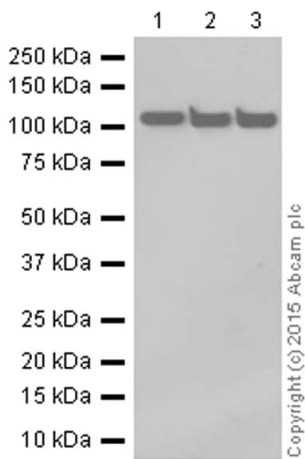
Application	Abreviews	Notes
WB	★★★★★ (3)	1/1000 - 1/10000. Predicted molecular weight: 113 kDa.
IP		1/10 - 1/100.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

Function	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. Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner.
Tissue specificity	Ubiquitous with higher expression in heart, brain and skeletal muscle.
Sequence similarities	Contains 1 RRM (RNA recognition motif) domain.
Domain	Contains 2 Leu-Xaa-Xaa-Leu-Leu (LXXLL) motif, which are usually required for the association with nuclear receptors.
Cellular localization	Nucleus.

Images



Western blot - Anti-PGC1 beta antibody [EPR12370] (ab176328)

All lanes : Anti-PGC1 beta antibody [EPR12370] (ab176328) at 1/10000 dilution (purified)

Lane 1 : HeLa whole cell lysate

Lane 2 : MCF-7 whole cell lysate

Lane 3 : SH-SY5Y whole cell lysate

Lysates/proteins at 20 µg per lane.

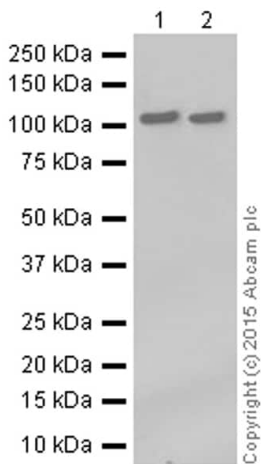
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 113 kDa

Observed band size: 113 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



Western blot - Anti-PGC1 beta antibody [EPR12370] (ab176328)

All lanes : Anti-PGC1 beta antibody [EPR12370] (ab176328) at 1/10000 dilution (purified)

Lane 1 : Mouse spleen tissue lysate

Lane 2 : Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

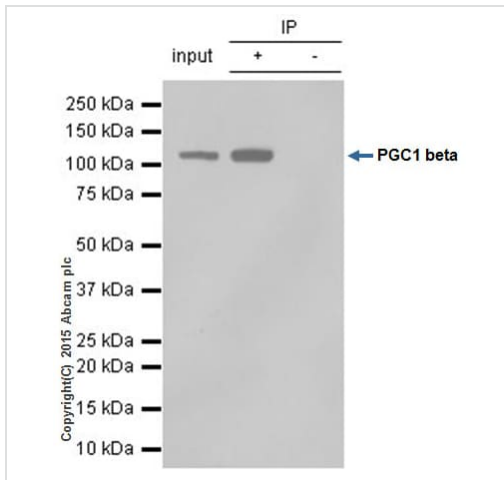
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 113 kDa

Observed band size: 113 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-PGC1 beta antibody [EPR12370] (ab176328)

ab176328 (purified) at 1/20 immunoprecipitating PGC1 beta in HeLa whole cell lysate.

Lane 1 (input): HeLa whole cell lysate (10µg)

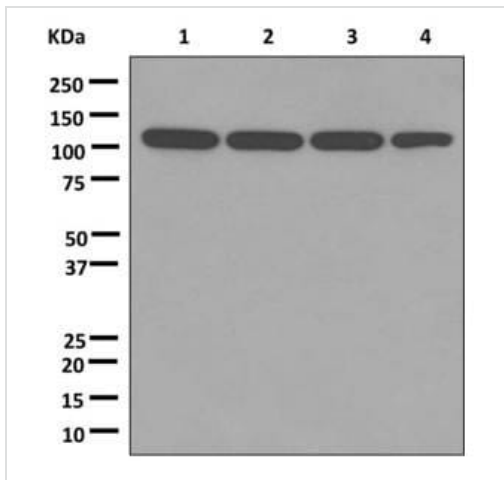
Lane 2 (+): ab176328 + HeLa whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab176328 in HeLa whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.



Western blot - Anti-PGC1 beta antibody [EPR12370] (ab176328)

All lanes : Anti-PGC1 beta antibody [EPR12370] (ab176328) at 1/1000 dilution (unpurified)

Lane 1 : HeLa cell lysate

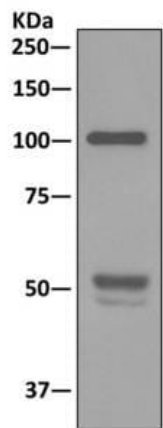
Lane 2 : MCF7 cell lysate

Lane 3 : Human fetal brain tissue lysate

Lane 4 : Human fetal heart tissue lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 113 kDa



Western blot analysis on immunoprecipitation pellet from HeLa cell lysate labeling PGC1 beta using unpurified ab176328 at a dilution of 1/10.

Immunoprecipitation - Anti-PGC1 beta antibody [EPR12370] (ab176328)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PGC1 beta antibody [EPR12370] (ab176328)

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

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