

Product datasheet

Anti-PCB antibody - C-terminal ab229267

4 Images

Overview

<b>Product name</b>	Anti-PCB antibody - C-terminal
<b>Description</b>	Rabbit polyclonal to PCB - C-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human <b>Predicted to work with:</b> Cow, Pig, Rhesus monkey 
<b>Immunogen</b>	Recombinant fragment within Human PCB (C terminal). The exact sequence is proprietary. Database link: <a href="#">P11498</a>
<b>Positive control</b>	WB: HEK-293T, A431, HeLa and HepG2 whole cell extracts. IP: HeLa whole cell extract. IHC-P: Rat duodenum tissue. ICC/IF: HeLa cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.025% Proclin Constituents: PBS, 20% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab229267** 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 - 1/1000.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 130 kDa.
ICC/IF		1/100 - 1/1000.
IP		1/100 - 1/857.

## Target

### Function

Pyruvate carboxylase catalyzes a 2-step reaction, involving the ATP-dependent carboxylation of the covalently attached biotin in the first step and the transfer of the carboxyl group to pyruvate in the second. Catalyzes in a tissue specific manner, the initial reactions of glucose (liver, kidney) and lipid (adipose tissue, liver, brain) synthesis from pyruvate.

### Pathway

Carbohydrate biosynthesis; gluconeogenesis.

### Involvement in disease

Defects in PC are the cause of pyruvate carboxylase deficiency (PC deficiency) [MIM:266150]. PC deficiency leads to lactic acidosis, mental retardation and death. It occurs in three forms: mild or type A, severe neonatal or type B, and a very mild lacticacidemia.

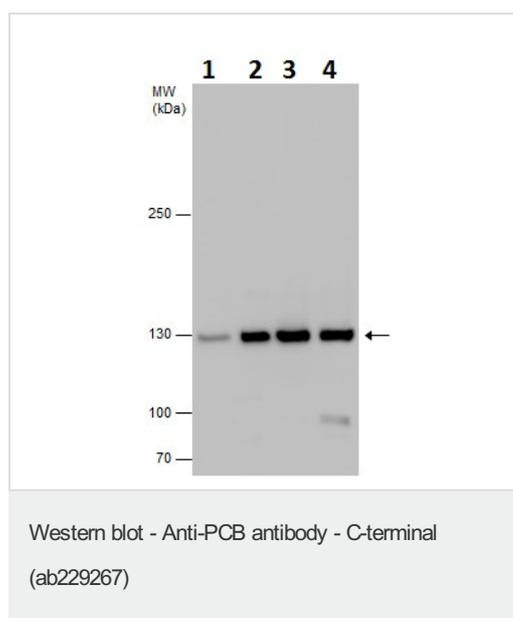
### Sequence similarities

Contains 1 ATP-grasp domain.  
 Contains 1 biotin carboxylation domain.  
 Contains 1 biotinyl-binding domain.  
 Contains 1 carboxyltransferase domain.

### Cellular localization

Mitochondrion matrix.

## Images



**All lanes** : Anti-PCB antibody - C-terminal (ab229267) at 1/1000 dilution

**Lane 1** : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

**Lane 2** : A431 (human epidermoid carcinoma cell line) whole cell extract

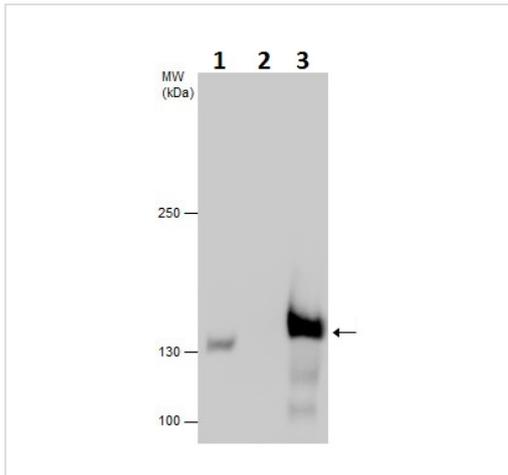
**Lane 3** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

**Lane 4** : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 130 kDa

5% SDS-PAGE gel.



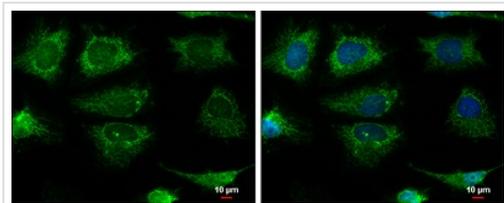
Immunoprecipitation - Anti-PCB antibody - C-terminal (ab229267)

PCB was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract with 5 $\mu$ g ab229267. Western blot was performed from the immunoprecipitate using ab229267. Anti-rabbit IgG was used as secondary antibody.

Lane 1: HeLa whole cell extract.

Lane 2: Control IgG instead of ab229267 in HeLa whole cell extract.

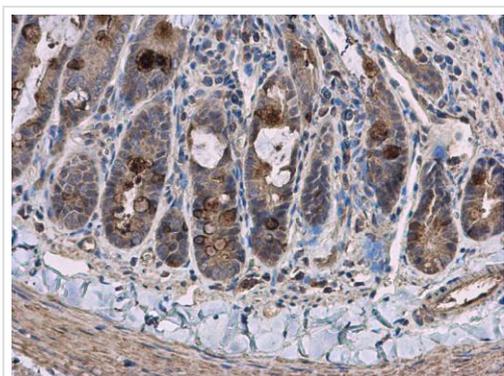
Lane 3: ab229267 IP in HeLa whole cell extract.



Immunocytochemistry/ Immunofluorescence - Anti-PCB antibody - C-terminal (ab229267)

2% paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for PCB (green) using ab229267 at 1/500 dilution in ICC/IF.

Blue: Hoechst 33342 staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCB antibody - C-terminal (ab229267)

Paraffin-embedded rat duodenum tissue stained for PCB using ab229267 at 1/500 dilution in immunohistochemical analysis.

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

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