

Product datasheet

Anti-PCCB antibody **ab70416**

3 Images

Overview

<b>Product name</b>	Anti-PCCB antibody
<b>Description</b>	Mouse polyclonal to PCCB
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Full length human PCCB protein (NP_000523.2).
<b>Positive control</b>	PCCB transfected 293T lysate and human liver tissue lysate.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Constituent: 2.68% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab70416** in the following tested applications.

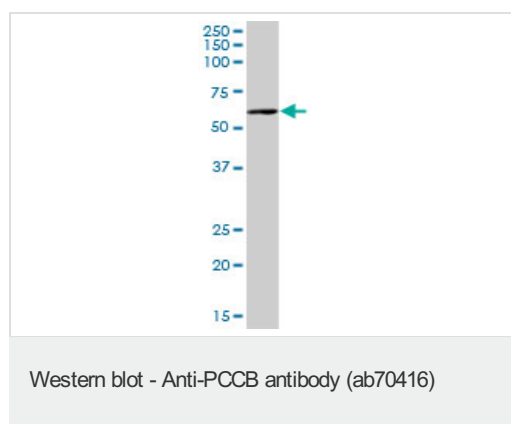
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 58 kDa (predicted molecular weight: 58 kDa).
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Pathway</b>	Metabolic intermediate metabolism; propanoyl-CoA degradation; succinyl-CoA from propanoyl-CoA: step 1/3.
<b>Involvement in disease</b>	Defects in PCCB are the cause of propionic acidemia type II (PA-2) [MIM:606054]. PA-2 is a life-threatening disease characterized by episodic vomiting, lethargy and ketosis, neutropenia, periodic thrombocytopenia, hypogammaglobulinemia, developmental retardation, and intolerance to protein.
<b>Sequence similarities</b>	Belongs to the AccD/PCCB family. Contains 1 carboxyltransferase domain.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



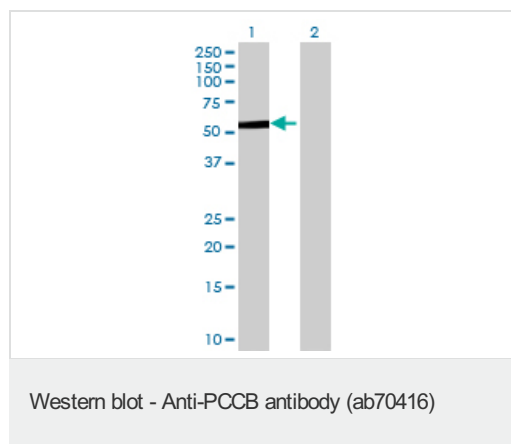
Anti-PCCB antibody (ab70416) at 1/500 dilution + human liver tissue lysate at 25  $\mu$ g

### Secondary

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

**Predicted band size:** 58 kDa

**Observed band size:** 60 kDa



**All lanes :** Anti-PCCB antibody (ab70416) at 1/500 dilution

**Lane 1 :** PCCB transfected 293T lysate

**Lane 2 :** Non-transfected 293T lysate

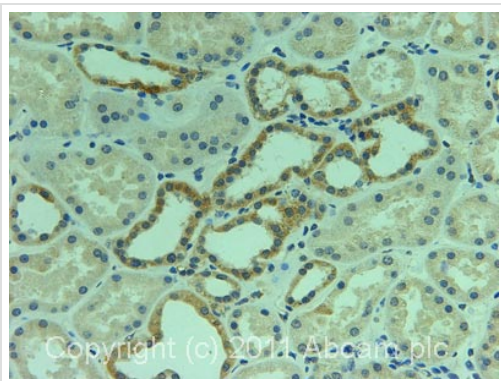
Lysates/proteins at 25  $\mu$ g per lane.

### Secondary

**All lanes :** Goat Anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

**Predicted band size:** 58 kDa

**Observed band size:** 55 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCCB antibody (ab70416)

IHC image of ab70416 staining in normal human kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab70416, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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