

Product datasheet

Anti-PCCB antibody ab70416

3 Images

Overview

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

Properties

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

Applications

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

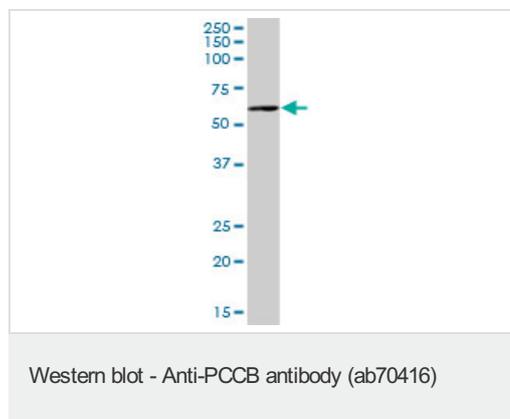
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Pathway	Metabolic intermediate metabolism; propanoyl-CoA degradation; succinyl-CoA from propanoyl-CoA: step 1/3.
Involvement in disease	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.
Sequence similarities	Belongs to the AccD/PCCB family. Contains 1 carboxyltransferase domain.
Cellular localization	Mitochondrion matrix.

Images



Anti-PCCB antibody (ab70416) at 1/500 dilution + human liver tissue lysate at 25 µg

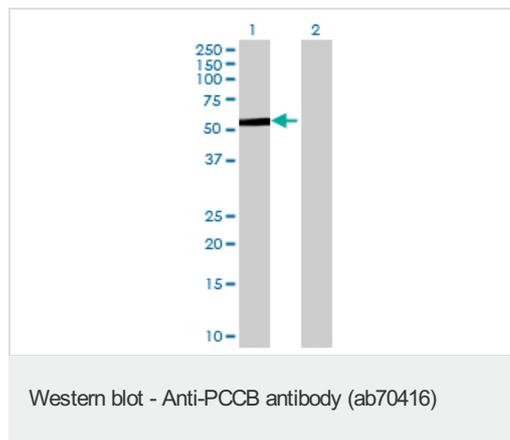
Secondary

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

Predicted band size: 58 kDa

Observed band size: 60 kDa

[why is the actual band size different from the predicted?](#)



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

Lane 1 : PCCB transfected 293T lysate

Lane 2 : Non-transfected 293T lysate

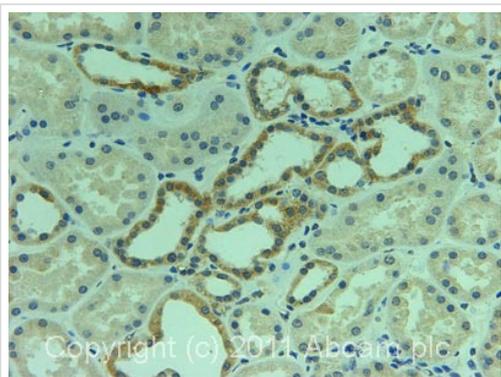
Lysates/proteins at 25 µg per lane.

Secondary

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

Predicted band size: 58 kDa

Observed band size: 55 kDa [why is the actual band size different from the predicted?](#)



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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