


Product datasheet

Anti-PCBD1 antibody [EPR9760(B)] ab138518

KO VALIDATED Recombinant RabMAB

4 Images

Overview

Product name	Anti-PCBD1 antibody [EPR9760(B)]
Description	Rabbit monoclonal [EPR9760(B)] to PCBD1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human PCBD1 aa 1-100 (N terminal). The exact sequence is proprietary.
Positive control	WB: Human ovary cancer, fetal heart, fetal liver, HEK293T and Caco-2 cell lysates. IHC-P: Human colon tissue.
General notes	<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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR9760(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab138518 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		1/1000 - 1/10000. Detects a band of approximately 12 kDa (predicted molecular weight: 12 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

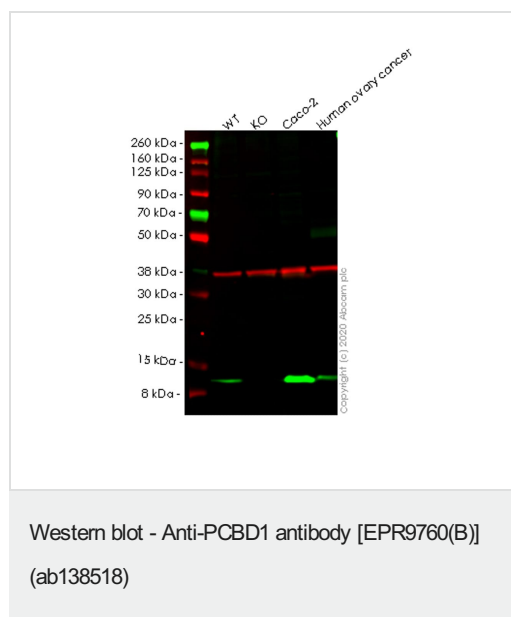
Function Involved in tetrahydrobiopterin biosynthesis. Seems to both prevent the formation of 7-pterins and accelerate the formation of quinonoid-BH2. Coactivator for HNF1A-dependent transcription. Regulates the dimerization of homeodomain protein HNF1A and enhances its transcriptional activity.

Involvement in disease Defects in PCBD1 are the cause of BH4-deficient hyperphenylalaninemia type D (HPABH4D) [MIM:264070]; also known as hyperphenylalaninemia with primapterinuria. HPABH4D is characterized by the excretion of 7-substituted pterins in the urine of affected patients.

Sequence similarities Belongs to the pterin-4-alpha-carbinolamine dehydratase family.

Cellular localization Cytoplasm. Nucleus. Cytoplasmic and/or nuclear.

Images



All lanes : Anti-PCBD1 antibody [EPR9760(B)] (ab138518) at 1/500 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : PCBD1 knockout HEK293T cell lysate

Lane 3 : Caco-2 cell lysate

Lane 4 : Human ovary cancer tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

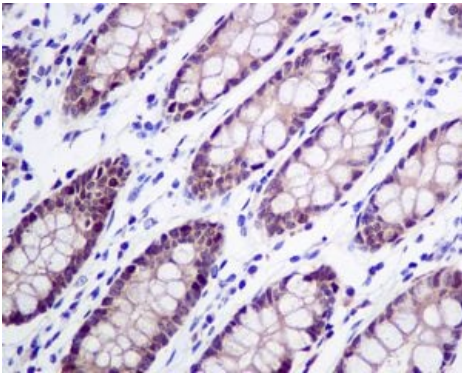
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 12 kDa

Observed band size: 12 kDa

Lanes 1-4: Merged signal (red and green). Green - ab138518 observed at 12 kDa. Red - loading control **ab8245** observed at 36 kDa.

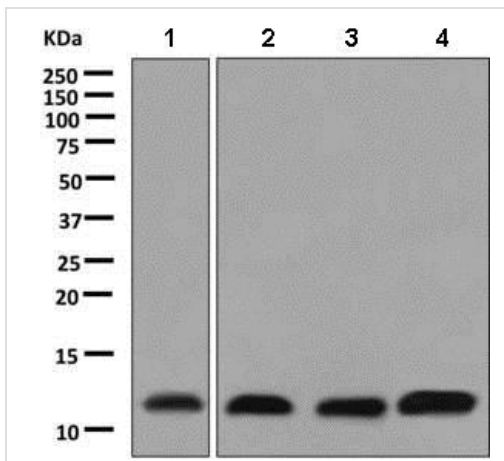
ab138518 Anti-PCBD1 antibody [EPR9760(B)] was shown to specifically react with PCBD1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266261** (knockout cell lysate **ab258095**) was used. Wild-type and PCBD1 knockout samples were subjected to SDS-PAGE. ab138518 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCBD1 antibody [EPR9760(B)] (ab138518)

Immunohistochemical analysis of paraffin embedded Human colon tissue labelling PCBD1 with ab138518 antibody at a dilution of 1/50.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-PCBD1 antibody [EPR9760(B)] (ab138518)

All lanes : Anti-PCBD1 antibody [EPR9760(B)] (ab138518) at 1/1000 dilution

Lane 1 : Human ovary cancer cell lysate

Lane 2 : Fetal heart cell lysate

Lane 3 : Fetal liver cell lysate

Lane 4 : Caco-2 cell lysate

Lysates/proteins at 10 µg per lane.




Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 12 kDa

Observed band size: 12 kDa

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-PCBD1 antibody [EPR9760(B)] (ab138518)

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