

Product Datasheet

PCCB Antibody - BSA Free

NBP1-85886

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-85886

PCCB Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	58 kDa

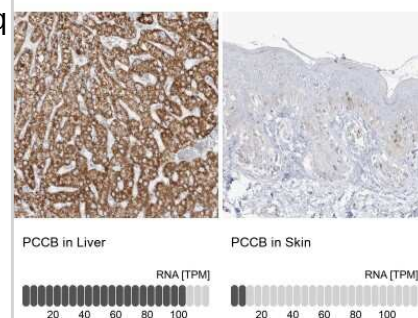
Product Description	
Description	Novus Biologicals Rabbit PCCB Antibody - BSA Free (NBP1-85886) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-PCCB Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5096
Gene Symbol	PCCB
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SSKHL CGDTNYAWPTAEIAVMGAKGAVEIIFK GHENVEAAQAEYIEKFANPFPA AVRGFVDDIIQPSSTRARICCDLDVL

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:1000 - 1:2500, Immunohistochemistry-Paraffin 1:1000 - 1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in RT-4 and U-251MG, separated by Size, antibody dilution of 1:20, apparent MW was 58 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

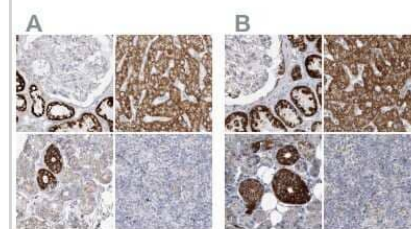


Images

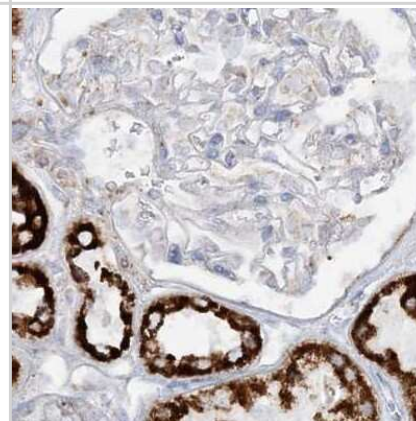
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining in human liver and skin tissues . Corresponding PCCB RNA-seq data are presented for the same tissues.



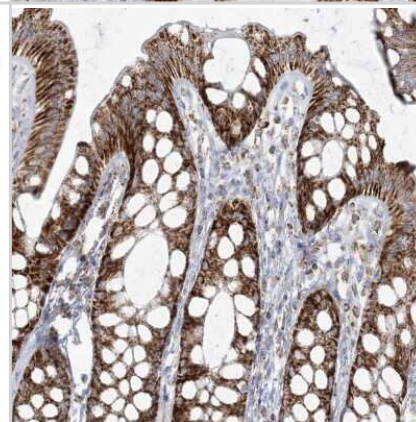
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human kidney, liver, salivary gland and tonsil using Anti-PCCB antibody NBP1-85886 (A) shows similar protein distribution across tissues to independent antibody NBP1-85887 (B).



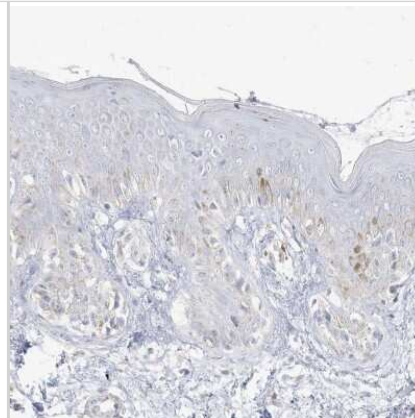
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human kidney using Anti-PCCB antibody NBP1-85886.



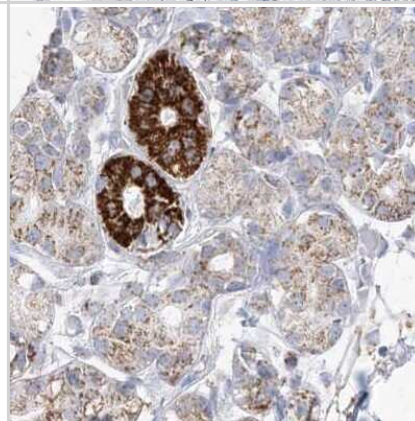
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human rectum shows strong granular cytoplasmic positivity in glandular cells.



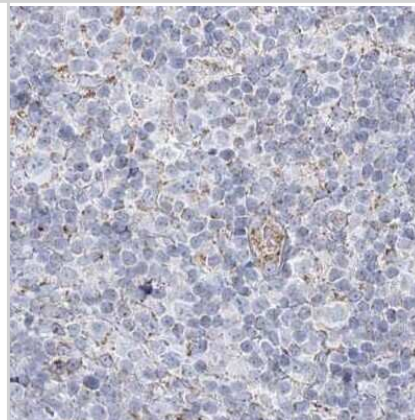
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human skin shows only weak cytoplasmic positivity in a subset of epidermal cells.



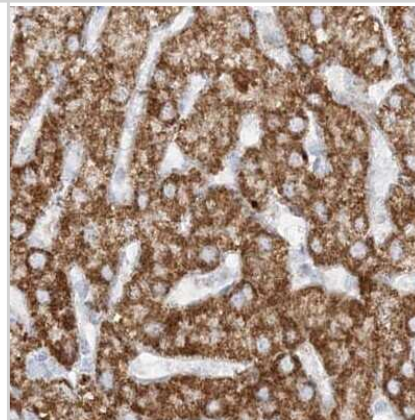
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human salivary gland.



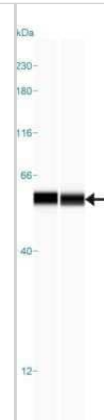
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human tonsil.



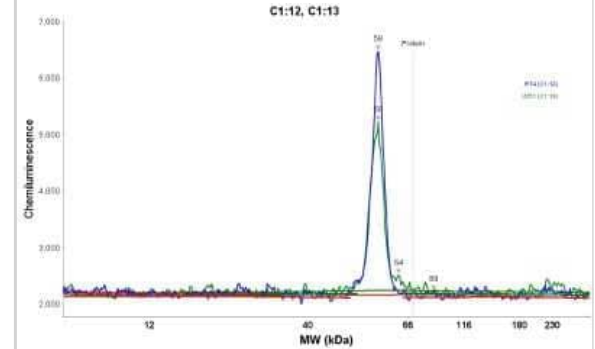
Immunohistochemistry-Paraffin: PCCB Antibody [NBP1-85886] - Staining of human liver using Anti-PCCB antibody NBP1-85886.



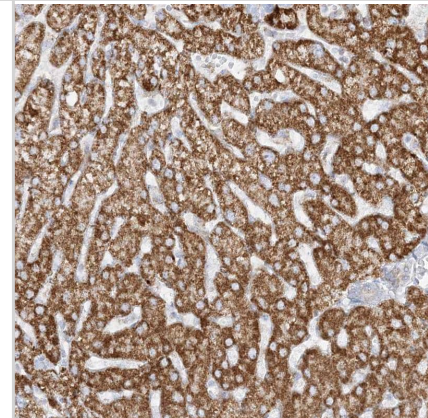
Simple Western: PCCB Antibody [NBP1-85886] - Simple Western lane view shows a specific band for PCCB in 0.2 mg/ml of RT-4 (left) and U-251MG sp (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



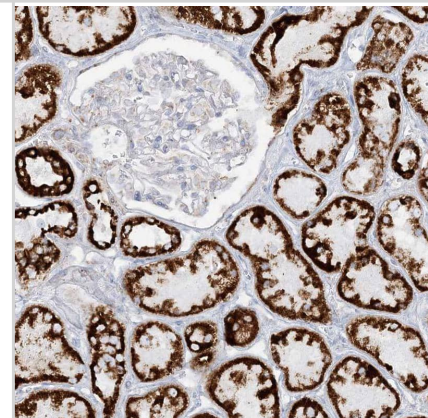
Simple Western: PCCB Antibody [NBP1-85886] - Electropherogram image(s) of corresponding Simple Western lane view. PCCB antibody was used at 1:20 dilution on RT-4 and U-251MG sp lysates(s).



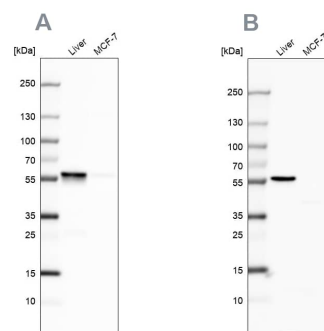
Staining of human liver shows strong granular cytoplasmic positivity in hepatocytes.



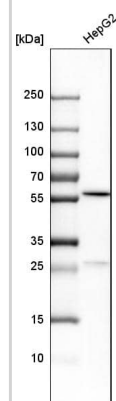
Staining of human kidney shows strong granular cytoplasmic positivity in cells in tubules.



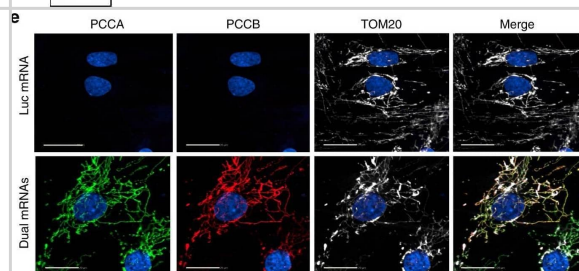
Analysis using Anti-PCCB antibody NBP1-85886 (A) shows similar pattern to independent antibody NBP1-85887 (B).



Analysis in human cell line HepG2.



Dual mRNAs encode functional PCC with proper mitochondrial localization in patient-derived fibroblasts and human Hep3B cells. a–c Comparison of co-transfection of hPCCA+hPCCB (dual) mRNAs with single transfection of hPCCA or hPCCB mRNA alone. Human fibroblasts isolated from a PCCA-deficient PA patient and a PCCB-deficient PA patient (n = 2 per condition) were transfected with 0.5 or 1 ug of the total dual mRNAs (1:1 molar ratio), hPCCA mRNA alone, or hPCCB mRNA alone, or 1 µg of eGFP control mRNA for 24 h. Cells were lysed, and mitochondrial matrix fractions were collected to assess PCC enzymatic activity by a radiometric assay (a), and protein levels of PCCA (b) and PCCB (c) by capillary electrophoresis. d Identification of the optimal molar ratio of hPCCA mRNA:hPCCB mRNA. Patient fibroblasts were transfected with 0.67 nM (1 ug) of total dual mRNAs across a range of molar ratios of hPCCA mRNA:hPCCB mRNA or with the same molar concentration of eGFP mRNA (n = 4 per condition) for 24 h. PCC activity in the cellular mitochondrial matrix fractions was measured. Data are shown as mean +/- SEM. e, f Subcellular localization of dual mRNAs-encoded PCC subunits in PCCA-deficient patient fibroblasts and human liver-derived Hep3B cells. Cells were transfected with 25 ng of dual mRNAs or luciferase (Luc) control mRNA for 24 h, and were stained for PCCA, PCCB, and TOM20, a mitochondrial marker. Scale bars are 20 µm. Representative images are shown from n = 24 replicates. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33087718>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Jiang L, Park JS, Yin L et al. Dual mRNA therapy restores metabolic function in long-term studies in mice with propionic acidemia Nat Commun 2020-10-21 [PMID: 33087718] (Human)



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NBP1-85886PEP	PCCB Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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