

Rabbit PCCB Polyclonal Antibody | anti-PCCB antibody

Anti-PCCB Antibody Picoband

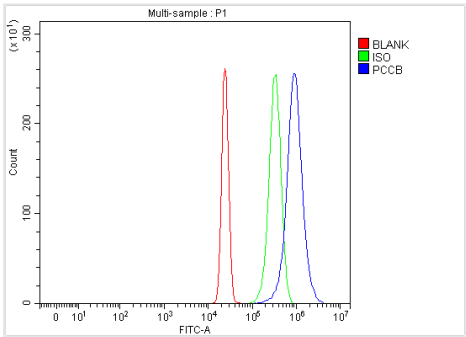
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127228	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PCCB; Polyclonal Antibody; Anti-PCCB Antibody Picoband; interleukin 3 receptor subunit alpha; Interleukin-3 receptor subunit alpha; IL-3 receptor subunit alpha; IL-3R subunit alpha; IL-3R-alpha; IL-3RA; CD123; IL3RA; IL3R; anti-PCCB antibody

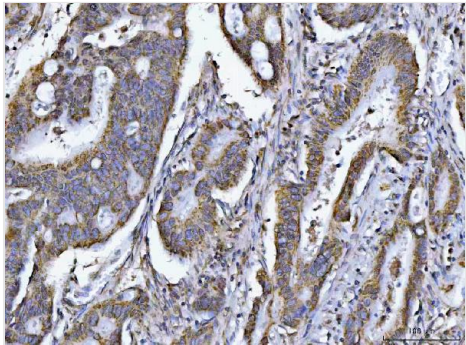
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PCCB antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human PCCB recombinant protein (Position: D83-L539).
Subcellular Localization	Membrane. Single-pass type I membrane protein.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	This is a receptor for interleukin-3.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



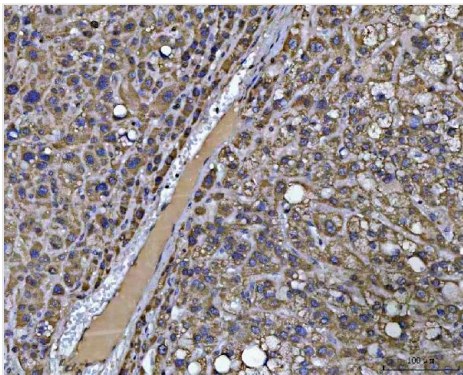
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of HepG2 cells using anti-PCCB antibody (AAA127228).Overlay histogram showing HepG2 cells stained with AAA127228 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PCCB Antibody (AAA127228, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



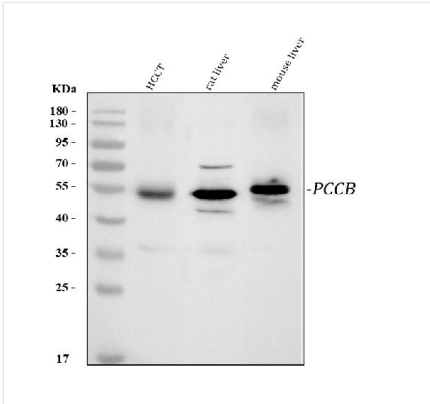
IHC (Immunohistochemistry)

Figure 2. IHC analysis of PCCB using anti-PCCB antibody (AAA127228).PCCB was detected in a paraffin-embedded section of human colon adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PCCB Antibody (AAA127228) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of PCCB using anti-PCCB antibody (AAA127228).PCCB was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-PCCB Antibody (AAA127228) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PCCB using anti-PCCB antibody (AAA127228).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human hepatocellular carcinoma tumor tissue (HCCT) lysates,Lane 2: rat liver tissue lysates,Lane 3: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PCCB antigen affinity purified polyclonal antibody (#AAA127228) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PCCB at approximately 55 kDa. The expected band size for PCCB is at 58 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PCCB antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PCCB antibody	Primary Antibodies; Adaptive Immunity; B Cells; Hematopoietic Progenitors; Immunoglobulins; Immunology; Lymphoid; Receptors; Stem Cells

References	1. Chloupkova, M., Maclean, K. N., Alkhateeb, A., Kraus, J. P. Propionic acidemia: analysis of mutant propionyl-CoA carboxylase enzymes expressed in Escherichia coli. Hum. Mutat. 19: 629-640, 2002.2. Desviat, L. R., Clavero, S., Perez-Cerda, C., Navarrete, R., Ugarte, M., Perez, B. New splicing mutations in propionic acidemia. J. Hum. Genet. 51: 992-997, 2006. 3. Fenton, W. A., Gravel, R. A., Rosenblatt, D. S. Disorders of propionate and methylmalonate metabolism.In: Scriver, C. R.; Beaudet, A. L.; Sly, W. S.; Valle, D. (eds.) : The Metabolic and Molecular Bases of Inherited Disease. Vol. II. (8th ed.) New York: McGraw-Hill (pub.) 2001. P. 2176.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119943100
NCBI GeneID	5096
NCBI Accession #	NP_000523.2
NCBI GenBank Nucleotide #	NM_000532.4
UniProt Accession #	P05166; Q16813; Q96CX0; B7Z2Z4
Molecular Weight	60,521 Da
NCBI Official Full Name	propionyl-CoA carboxylase beta chain, mitochondrial isoform 1
NCBI Official Synonym Full Names	propionyl CoA carboxylase, beta polypeptide
NCBI Official Symbol	PCCB
NCBI Protein Information	propionyl-CoA carboxylase beta chain, mitochondrial; PCCase subunit beta; propanoyl-CoA:carbon dioxide ligase subunit beta; propionyl Coenzyme A carboxylase, beta polypeptide
UniProt Protein Name	Propionyl-CoA carboxylase beta chain, mitochondrial
UniProt Gene Name	PCCB
UniProt Synonym Gene Names	PCCase subunit beta
UniProt Entry Name	PCCB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pccb-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127228>