# Rabbit PC Polyclonal Antibody | anti-PC antibody

PC Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA325018** | **Rabbit** | **Human, Mouse, Rat** | **ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

PC; Polyclonal Antibody; PC Antibody; mitochondrial; OTTHUMP00000235155; OTTHUMP00000235156; PCB; Pcx; PYC_HUMAN; Pyruvate carboxylase; Pyruvate carboxylase mitochondrial; Pyruvic carboxylase; anti-PC antibody

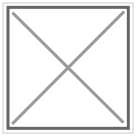
## PRODUCT SPECIFICATIONS

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| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Specificity** | PC antibody detects endogenous levels of total PC |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| **Form/Format** | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Sequence Length** | 1178 |
| **Applicable Applications for anti-PC antibody** | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | A synthesized peptide |
| **Subcellular Location** | Mitochondrion Matrix. |
| **Predicted Cross Reactivity** | **Pig, Bovine, Sheep, Dog** |
| **Similarity** | Pig (100%), Bovine (100%), Sheep (100%), Dog (100%) |
| **Conjugation** | Unconjugated |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |

## IMAGES

**WB (Western Blot)**
Western blot analysis of extracts from Jurkat cells, using PC antibody.

**IF (Immunofluorescence)**
AAA325018 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



**IHC (Immunohistochemistry)**
AAA325018 at 1/100 staining Human lung cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-PC antibody** | Function: Pyruvate carboxylase catalyzes a 2-step reaction, involving the ATP-dependent carboxylation of the covalently attached biotin in the first step and the transfer of the carboxyl group to pyruvate in the second. Catalyzes in a tissue specific manner, the initial reactions of glucose (liver, kidney) and lipid (adipose tissue, liver, brain) synthesis from pyruvate.<br>Subunit Structure: Homotetramer (PubMed:18297087). Interacts (via the biotin carboxylation domain) with SIRT4 (PubMed:23438705).<br>Post-translational Modifications: Acetylation of Lys-748 might play a role in catalytic activity regulation. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 106049295 |
| **NCBI GeneID** | 5091 |
| **NCBI Accession #** | NP_000911.2 |
| **NCBI GenBank Nucleotide #** | NM_000920.3 |
| **UniProt Accession #** | P11498; Q16705; B4DN00 |
| **Molecular Weight** | Observed: 120 kD<br>Predicted: 130 kDa |
| **NCBI Official Full Name** | pyruvate carboxylase, mitochondrial |
| **NCBI Official Synonym Full Names** | pyruvate carboxylase |
| **NCBI Official Symbol** | PC |
| **NCBI Official Synonym Symbols** | PCB |
| **NCBI Protein Information** | pyruvate carboxylase, mitochondrial |
| **UniProt Protein Name** | Pyruvate carboxylase, mitochondrial |
| **UniProt Gene Name** | **PC** |
| **UniProt Synonym Gene Names** | PCB |

**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/pc-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325018