

## Rabbit anti-Human PCYT1A Polyclonal Antibody | anti-PCYT1A antibody

Anti-PCYT1A Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                            |
|-----------|--------|------------|---------------------------------------------------------|
| AAA256351 | Rabbit | Human      | Immunoprecipitation, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

PCYT1A; Polyclonal Antibody; Anti-PCYT1A Antibody; Rabbit Polyclonal; PCYT1A Antibody; Rabbit PAb; Antigen Affinity Purified; phosphate cytidyltransferase 1; choline; alpha isoform; Anti-CCTA Antibody; Anti-CT Antibody; Anti-CTA Antibody; Anti-CTPCT Antibody; Anti-PCYT1 Antibody; Anti-SMDCRD Antibody; anti-PCYT1A antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                    |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                       | Human                                                                                                                                                                                                                                              |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                                                         |
| Specificity                                      | Human PCYT1A                                                                                                                                                                                                                                       |
| Purity/Purification                              | Protein A & Antigen Affinity                                                                                                                                                                                                                       |
| Form/Format                                      | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                           |
| Applicable Applications for anti-PCYT1A antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                            |
| Immunogen                                        | E Coli-derived Human PCYT1A fragment                                                                                                                                                                                                               |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                      | Produced in rabbits immunized with E Coli-derived Human PCYT1A fragment, and purified by antigen affinity chromatography.                                                                                                                          |
| Preparation and Storage                          | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### IP (Immunoprecipitation)

PCYT1A was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate 4 uL anti-PCYT1A rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PCYT1A rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 42 kDa. Observed band size: 50 kDa.



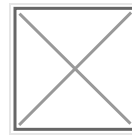
#### IHC (Immunohistochemistry)

Immunochemical staining of human PCYT1A in human esophagus with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



#### IHC (Immunohistochemistry)

Immunochemical staining of human PCYT1A in human skin with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



#### WB (Western Blot)

Anti-PCYT1A rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lane B: Hela Whole Cell Lysate Lane C: A549 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 45 kDa

## ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PCYT1A antibody</b> | PCYT1A, the rate-limiting enzyme of Phosphatidylcholine (PC) synthesis, is intranuclear and re-locates to the nuclear membrane in response to the need for membrane PL synthesis in yeast, fly, and mammalian cells. PCYT1A is associated with cancer progression. PCYT1A suppresses proliferation and migration by inhibiting the mTORC1 signaling pathway in lung adenocarcinoma. PCYT1A shows as a potential promising biomarker in lung adenocarcinoma. Mutations in the PCYT1A gene have been recently linked to two different phenotypes: one characterized by spondylometaphyseal dysplasia and cone-rod dystrophy (SMD-CRD) and the other by congenital lipodystrophy, severe fatty liver disease, and reduced HDL cholesterol without any retinal or skeletal involvement. |
| <b>References</b>                                           | Yu J, et al. (2020) Pcyt1a suppresses proliferation and migration via inhibiting mtorc1 pathway in lung adenocarcinoma. Biochem Biophys Res Commun 529 (2): 353-361. Testa F, et al. (2017) Mutations in the pcyt1a gene are responsible for isolated forms of retinal dystrophy. Eur J Hum Genet 25 (5): 651-655. Haider A, et al. (2018) Pcyt1a regulates phosphatidylcholine homeostasis from the inner nuclear membrane in response to membrane stored curvature elastic stress. Dev Cell 45 (4): 481-495.e488.                                                                                                                                                                                                                                                                 |

**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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pcyt1a-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/256351>