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Datasheet for ABIN1392607  
**anti-PCYT2 antibody (AA 315-389) (Biotin)**

## Overview

Quantity:	100 µL
Target:	PCYT2
Binding Specificity:	AA 315-389
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCYT2 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PCYT2
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat,Dog,Cow,Sheep,Horse
Purification:	Purified by Protein A.

## Target Details

Target:	PCYT2
Alternative Name:	PCYT2 ( <a href="#">PCYT2 Products</a> )
Background:	Synonyms: CTP, phosphoethanolamine cytidyltransferase, ET, Ethanolamine-phosphate

## Target Details

cytidyltransferase, Ethanolaminephosphate Cytidyltransferase, PCY2, PCY2\_HUMAN, Pcyt2, Phosphate cytidyltransferase 2 ethanolamine, Phosphorylethanolamine transferase.

Background: Phosphatidylethanolamine (PtdEtn) is a major membrane phospholipid which serves to play a primary role in cell membrane structure and is also involved in cell division, cell signaling, activation, phagocytosis and autophagy. PCYT2 (Phosphorylethanolamine transferase), also known as Ethanolamine-phosphate cytidyltransferase, is a 389 amino acid protein that catalyzes the formation of CDP-ethanolamine from ethanolamine. This product combined with diacylglycerol form phosphatidylethanolamine via the de novo Kennedy pathway. PCYT2 is expressed at highest levels in heart, liver and skeletal muscle. Elevated levels of MyoD, reduced content of Sp1 and a changed ratio of Sp1 to Sp3 all together stimulate upregulation of PCTY2 transcription during C2C12 muscle cell differentiation. Disruption of the PCYT2 gene in mice leads to death after embryo implantation, establishing the necessity of PCYT2 for murine development.

## Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months