



Rabbit Anti-PCYT2 antibody

SL11663R

Product Name:	PCYT2
Chinese Name:	磷酸乙醇胺转移酶2抗体
Alias:	CTP; phosphoethanolamine cytidyltransferase; ET; Ethanolamine-phosphate cytidyltransferase; Ethanolaminephosphate Cytidyltransferase; PCY2; PCY2_HUMAN; Pcyt2; Phosphate cytidyltransferase 2 ethanolamine; Phosphorylethanolamine transferase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCYT2:315-389/389
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 PCYT2 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.

Function:

Plays an important role in the biosynthesis of the phospholipid phosphatidylethanolamine. Catalyzes the formation of CDP-ethanolamine.

Tissue Specificity:

Strongest expression in liver, heart, and skeletal muscle.

Similarity:

Belongs to the cytidyltransferase family.

SWISS:

Q99447

Gene ID:

5833

Database links:

[Entrez Gene: 5833](#)Human

[Entrez Gene: 68671](#)Mouse

[Entrez Gene: 89841](#)Rat

[SwissProt: Q99447](#)Human

[SwissProt: Q922E4](#)Mouse

[SwissProt: O88637](#)Rat

[Unigene: 569843](#)Human

[Unigene: 21439](#)Mouse

[Unigene: 7291](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

