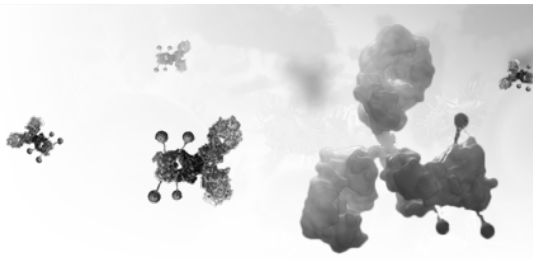

Mouse anti-Human CDS2 monoclonal antibody, clone 3C0 (CABT-B9936)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	CDS2 (NP_003809, 1 a.a. ~ 68 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3C0
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	MTELRQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLNRALS NLSSRWK*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth,

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	calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13. [provided by RefSeq, Jul 2008]
Keywords	CDS2; CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 2; phosphatidate cytidylyltransferase 2; CDS 2; CDP-DG synthase 2; CDP-DAG synthase 2; CDP-DG synthetase 2; CDP-diglyceride synthase 2; CDP-diglyceride synthetase 2; CDP-diacylglycerol synthase 2; CDP-diglyceride diphosphorylase 2; CDP-diglyceride pyrophosphorylase 2; CTP:phosphatidate cytidylyltransferase 2;

GENE INFORMATION

Entrez Gene ID	8760
UniProt ID	O95674
Pathway	Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylinositol signaling system, organism-specific biosystem; Phosphatidylinositol signaling system, conserved biosystem
Function	nucleotidyltransferase activity; phosphatidate cytidylyltransferase activity

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