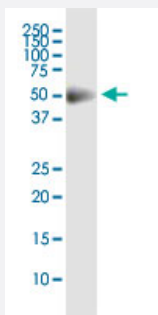


CDS2 monoclonal antibody (M01), clone 2B9

Catalog # H00008760-M01

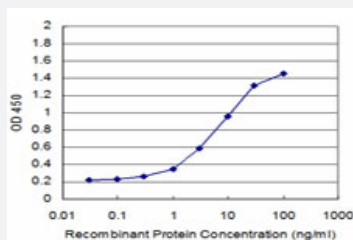
Size 100 ug

Applications



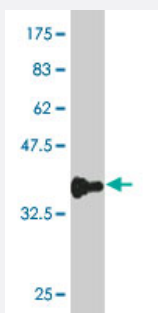
Western Blot (Tissue lysate)

CDS2 monoclonal antibody (M01), clone 2B9. Western Blot analysis of CDS2 expression in human kidney.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDS2 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (33.11 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant CDS2.

Immunogen	CDS2 (NP_003809, 1 a.a. ~ 67 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MTELRQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLNRALSNLS SRWK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (96); Rat (94)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.11 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

CDS2 monoclonal antibody (M01), clone 2B9. Western Blot analysis of CDS2 expression in human kidney.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDS2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CDS2

Entrez GeneID [8760](#)

GeneBank Accession#	NM_003818
Protein Accession#	NP_003809
Gene Name	CDS2
Gene Alias	FLJ38111
Gene Description	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2
Omim ID	603549
Gene Ontology	Hyperlink
Gene Summary	Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, 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]
Other Designations	CDP-DAG synthase 2 CDP-DG synthetase 2 CDP-diacylglycerol synthase 2 CDP-diglyceride diacylglycerol synthase 2 CDP-diglyceride pyrophosphorylase 2 CDP-diglyceride synthetase 2 CTP:phosphatidate cytidyltransferase 2 OTTHUMP00000030195 phosphatidate cytidyltransferase 2

Publication Reference

- [Translocation of p53 to Mitochondria Is Regulated by Its Lipid Binding Property to Anionic Phospholipids and It Participates in Cell Death Control.](#)

Li CH, Cheng YW, Liao PL, Kang JJ.

Neoplasia 2010 Feb; 12(2):150.

Application: WB, Human, HepG2 cells

Pathway

- [Glycerophospholipid metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tobacco Use Disorder](#)