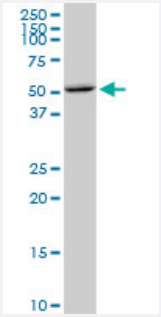
CDS1 monoclonal antibody (M01), clone 2D10

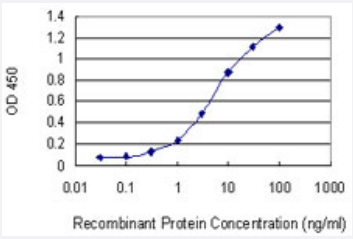
Catalog # H00001040-M01 Size 100 ug

Applications



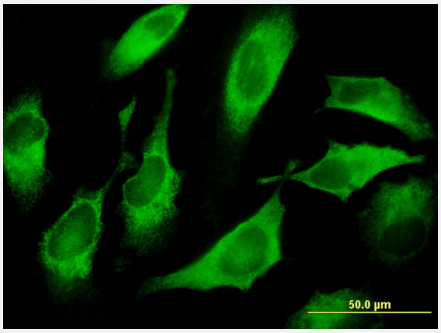
Western Blot (Tissue lysate)

CDS1 monoclonal antibody (M01), clone 2D10. Western Blot analysis of CDS1 expression in human liver.



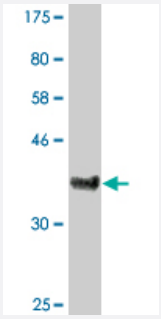
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CDS1 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to CDS1 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.52 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CDS1.
Immunogen	CDS1 (NP_001254, 1 a.a. ~ 98 a.a) partial recombinant protein with GST tag. MW of the GST tag al one is 26 KDa.
Sequence	MLELRHRGSCPGPREAVSPPHREGEAAGGDHETESTSDKETDIDDRYGDLDSRTDSDIPEIPPS SDRTPEILKKALSGLSSRWKNWWIRGILTLTMIS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 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)

  CDS1 monoclonal antibody (M01), clone 2D10. Western Blot analysis of CDS1 expression in human liver.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

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  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to CDS1 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — CDS1

Entrez GeneID	1040
GeneBank Accession#	NM_001263
Protein Accession#	NP_001254
Gene Name	CDS1
Gene Alias	CDS
Gene Description	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase) 1
Omim ID	603548
Gene Ontology	Hyperlink
Gene Summary	Breakdown products of phosphoinositides are ubiquitous second messengers that function down stream 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 am ount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic ac id to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellula r domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved i n the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmi c reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzy me have been identified in humans, one mapping to human chromosome 4q21 and a second to 2 0p13. [provided by RefSeq
Other Designations	CDP-DAG synthase 1|CDP-DG synthetase 1|CDP-diacylglycerol synthase 1|CDP-diglyceride pyr ophosphorylase 1|CDP-diglyceride synthetase 1|CTP:phosphatidate cytidylyltransferase 1|phosp hatidate cytidylyltransferase 1

Pathway

- Glycerophospholipid metabolism
- Metabolic pathways
- Phosphatidylinositol signaling system

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema