CDS2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDS2, Monoclonal Antibody
Full Product Name	CDS2 (Phosphatidate Cytidylyltransferase 2, CDP-DAG Synthase 2, CDP-DG Synthase 2, CDP-diacylglycerol Synthase 2, CDS 2, CDP-diglyceride Pyrophosphorylase 2, CDP-diglyceride Synthase 2, CTP:Phosphatidate Cytidylyltransferase 2) (MaxLight 750)
Product Gene Name	anti-CDS2 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2B9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDS2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	602713
3D Structure	ModBase 3D Structure for Q13443
Immunogen	Partial recombinant corresponding to aa1-68 from CDS2 (NP_003809) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MTELRQRVAHEPVAPPEDKESESEAKVDGETASDSESRAESAPLPVSADDTPEVLNRALSNLSSRWK
Conjugate	MaxLight750
Product Categories/Family for anti-CDS2 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-CDS2 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CDS2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDS2 antibody	May act cooperatively with GRB10 to regulate tyrosine kinase receptor signaling. May increase IGF1 receptor phosphorylation under IGF1 stimulation as well as phosphorylation of IRS1 and SHC1 (By similarity).
Other Notes	Small volumes of anti-CDS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDS2 purchase	MBS6232091 is an antibody targeting CDS2. Also known as CDS2 (Phosphatidate Cytidylyltransferase 2, CDP-DAG Synthase 2, CDP-DG Synthase 2, CDP-diacylglycerol Synthase 2, CDS 2, CDP-diglyceride Pyrophosphorylase 2, CDP-diglyceride Synthase 2, CTP:Phosphatidate Cytidylyltransferase 2) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDS2. It may not necessarily be applicable to this product.

NCBI GI #	4501915
NCBI GeneID	8754
NCBI Accession #	NP_003807
UniProt Primary Accession #	Q13443
UniProt Related Accession #	Q13443
GenBank Nucleotide #	NM_003818
NCBI Official Full Name	disintegrin and metalloproteinase domain-containing protein 9
NCBI Official Synonym Full Names	ADAM metallopeptidase domain 9
NCBI Official Symbol	ADAM9
NCBI Official Synonym Symbols	MCMP; MDC9; CORD9; Mltng
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 9
UniProt Synonym Protein Names	Cellular disintegrin-related protein; Meltrin-gamma; Metalloprotease/disintegrin/cysteine-rich protein 9; Myeloma cell metalloproteinase
Protein Family	Phosphatidate cytidylyltransferase
UniProt Gene Name	ADAM9
UniProt Synonym Gene Names	KIAA0021; MCMP; MDC9; MLTNG; ADAM 9
UniProt Entry Name	ADAM9_HUMAN
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 9
NCBI Summary for CDS2	This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The protein encoded by this gene interacts with SH3 domain-containing proteins, binds mitotic arrest deficient 2 beta protein, and is also involved in TPA-induced ectodomain shedding of membrane-anchored heparin-binding EGF-like growth factor. Several alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jul 2010]

UniProt Comments for CDS2	ADAM9: Probable zinc protease. May mediate cell-cell or cell- matrix interactions. Isoform 2 displays alpha-secretase activity for APP. Widely expressed. Expressed in chondrocytes. Isoform 2 is highly expressed in liver and heart. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Protease; Motility/polarity/chemotaxis; EC 3.4.24.- Chromosomal Location of Human Ortholog: 8p11.22 Cellular Component: extracellular space; focal adhesion; cell surface; basolateral plasma membrane; cytoplasm; integral to membrane Molecular Function: collagen binding; integrin binding; protein binding; protein kinase C binding; zinc ion binding; metallopeptidase activity; metalloendopeptidase activity; laminin binding; SH3 domain binding Biological Process: integrin-mediated signaling pathway; positive regulation of keratinocyte migration; extracellular matrix organization and biogenesis; activation of MAPKK activity; cell-matrix adhesion; membrane protein ectodomain proteolysis; response to glucocorticoid stimulus; positive regulation of cell adhesion mediated by integrin; positive regulation of membrane protein ectodomain proteolysis; keratinocyte differentiation; response to manganese ion; collagen catabolic process; extracellular matrix disassembly; PMA-inducible membrane protein ectodomain proteolysis; monocyte activation; response to hydrogen peroxide; positive regulation of protein secretion; transforming growth factor beta receptor signaling pathway; cell-cell adhesion mediated by integrin; cell adhesion mediated by integrin; cell adhesion; response to calcium ion Disease: Cone-rod Dystrophy 9
Research Articles on CDS2	**1.** ADAM9 was also found to foster angiogenesis without an impact on tumor cell proliferation.
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