Cardiolipin (CL) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Cardiolipin (CL), ELISA Kit
Full Product Name	Sheep Cardiolipin ELISA Kit
Product Gene Name	CL elisa kit
Species Reactivity	Sheep
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	32,593 Da
OMIM	608188
3D Structure	ModBase 3D Structure for Q9UJA2
Related Product Information for CL elisa kit	MBS072053 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cardiolipin (CL) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CL. The ELISA analytical biochemical technique of the MBS072053 kit is based on CL antibody-CL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CL. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CL elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	188536108
NCBI GeneID	54675
NCBI Accession #	NP_001120930.1
UniProt Primary Accession #	Q9UJA2
UniProt Secondary Accession #	Q27RP0; Q69YQ5; D3DW09; E9PAT4
UniProt Related Accession #	Q9UJA2
GenBank Nucleotide #	NM_001127458.1
NCBI Official Full Name	cardiolipin synthase isoform 2
NCBI Official Synonym Full Names	cardiolipin synthase 1
NCBI Official Symbol	CRLS1
NCBI Official Synonym Symbols	CLS; CLS1; GCD10; C20orf155; dJ967N21.6
UniProt Protein Name	Cardiolipin synthase
UniProt Synonym Protein Names	Protein GCD10 homolog
Protein Family	Cardiolipin-specific deacylase

UniProt Gene Name	CRLS1
UniProt Synonym Gene Names	C20orf155; CLS1; CLS
UniProt Entry Name	CRLS1_HUMAN
NCBI Protein Information	cardiolipin synthase
UniProt Comments for CL	CRLS1: Catalyzes the reversible phosphatidyl group transfer from one phosphatidylglycerol molecule to another to form cardiolipin (CL) (diphosphatidylglycerol) and glycerol. Belongs to the CDP-alcohol phosphatidyltransferase class-I family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - glycerophospholipid; EC 2.7.8.-; Membrane protein, multi-pass; Membrane protein, integral; Mitochondrial; Transferase Chromosomal Location of Human Ortholog: 20p13-p12.3 Cellular Component: mitochondrial inner membrane; integral to membrane Molecular Function: phosphotransferase activity, for other substituted phosphate groups Biological Process: cardiolipin biosynthetic process; phospholipid metabolic process; glycerophospholipid biosynthetic process
Research Articles on CL	**1.** transgenic expression of cardiolipin synthase attenuated maladaptive cardiolipin remodeling and bioenergetic inefficiency in myocardium rendered diabetic by streptozotocin treatment.
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