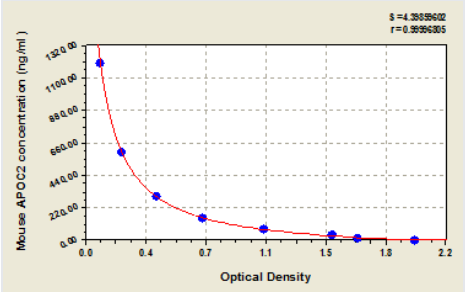
Apolipoprotein C-II (APOC2) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	apolipoprotein C-II (APOC2), ELISA Kit
Full Product Name	Mouse Apolipoprotein C-II, APOC2 ELISA Kit
Product Gene Name	APOC2 elisa kit
Product Synonym Names	Mouse Apolipoprotein C-II (APOC2) ELISA kit; MGC75082; ; apolipoprotein C-II
Species Reactivity	Mouse
Assay Type	Competitive
Samples	Serum, plasma, tissue homogenates
Detection Range	18.8 ng/ml-1200 ng/ml
Sensitivity	< 9.4 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of mouse APOC2. No significant cross-reactivity or interference between mouse APOC2 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	10,741 Da
3D Structure	ModBase 3D Structure for Q05020
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for APOC2 elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. The microtiter plate provided in this kit has been pre-coated with APOC2. Standards or samples are added to the appropriate microtiter plate wells with Horseradish Peroxidase (HRP) conjugated antibody preparation specific for APOC2. The competitive inhibition reaction is launched between with pre-coated APOC2 and APOC2 in samples. A substrate solution is added to the wells and the color develops in opposite to the amount of APOC2 in the sample. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of APOC2 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.
Searchable Terms for APOC2 purchase	MBS923729 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the apolipoprotein C-II (APOC2) 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 APOC2. The ELISA analytical biochemical technique of the MBS923729 kit is based on APOC2 antibody-APOC2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect APOC2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, APOC2. 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(%).



Typical Testing Data/Standard Curve (for reference only) of APOC2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOC2. It may not necessarily be applicable to this product.

NCBI GI #	485050543
NCBI GeneID	11813
NCBI Accession #	NP_001264873.1
UniProt Primary Accession #	Q05020
UniProt Related Accession #	Q05020
GenBank Nucleotide #	NM_001277944.1
NCBI Official Full Name	apolipoprotein C-II
NCBI Official Synonym Full Names	apolipoprotein C-II
NCBI Official Symbol	Apoc2
UniProt Protein Name	Apolipoprotein C-II
UniProt Synonym Protein Names	Apolipoprotein C2
Protein Family	Apolipoprotein
UniProt Gene Name	Apoc2
UniProt Synonym Gene Names	Apo-CII; ApoC-II
UniProt Entry Name	APOC2_MOUSE
NCBI Protein Information	apolipoprotein C-II; apo-CII; apoC-II; apolipoprotein C2
UniProt Comments for APOC2	APOC2: Component of the very low density lipoprotein (VLDL) fraction in plasma, and is an activator of several triacylglycerol lipases. The association of APOC2 with plasma chylomicrons, VLDL, and HDL is reversible, a function of the secretion and catabolism of triglyceride-rich lipoproteins, and changes rapidly. Defects in APOC2 are the cause of hyperlipoproteinemia type 1B (HLPP1B). It is an autosomal recessive trait characterized by hypertriglyceridemia, xanthomas, and increased risk of pancreatitis and early atherosclerosis. Belongs to the apolipoprotein C2 family. Protein type: Secreted, signal peptide; Secreted Cellular Component: extracellular space; chylomicron; extracellular region Molecular Function: phospholipase binding; protein homodimerization activity; lipase inhibitor activity; enzyme activator activity; lipid binding; phospholipase activator activity Biological Process: positive regulation of fatty acid biosynthetic process; negative regulation of cholesterol transport; cholesterol efflux; lipid transport; phospholipid efflux; transport; lipoprotein transport; negative regulation of catalytic activity; positive regulation of lipoprotein lipase activity; negative regulation of receptor-mediated endocytosis; lipid metabolic process; negative regulation of lipid metabolic process; lipid catabolic process

Research Articles on APOC2	**1.** Data show that apoC-II and LPL mRNAs correlate temporally and geographically with surfactant lipid synthesis in preparation for birth and suggest that fatty acid recruitment from the circulation by apoC-II-activated LPL is modulated by apoC-II secretion.
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