

ARG82626 Rat Apolipoprotein B ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82626 Rat Apolipoprotein B ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Apolipoprotein B in serum, plasma and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	The following recombinant Rat proteins were tested and exhibited no cross-reactivity or interference: ApoAI, BMP1, BMP2, BMP3, BMP4, BMP7, CRP, HGF, HSP27, IL1 alpha, IL1 RI, IL1 beta, IL1RA, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IL23, IFN gamma, MMP2, sIL2R, sIL6R, PDGF, PLA2G7, prolactin, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TNF alpha, TNF RI, TNF RII and VEGF.
Target Name	Apolipoprotein B
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	6.3 ng/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	12.5 - 800 ng/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	Apolipoprotein B-100; apoB-48; Apo B-100; apoB-100; Apo B-48; FLDB; LDLCQ4

Application Instructions

Assay Time	~ 3 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

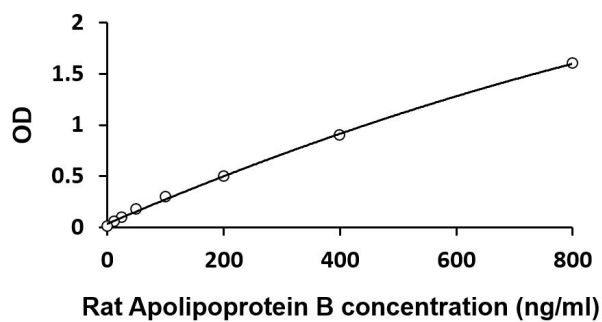
Bioinformation

Gene Symbol	APOB
Gene Full Name	apolipoprotein B
Background	This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins. It occurs in plasma as two main isoforms, apoB-48 and apoB-100: the former is synthesized exclusively in the gut

and the latter in the liver. The intestinal and the hepatic forms of apoB are encoded by a single gene from a single, very long mRNA. The two isoforms share a common N-terminal sequence. The shorter apoB-48 protein is produced after RNA editing of the apoB-100 transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination. Mutations in this gene or its regulatory region cause hypobetalipoproteinemia, normotriglyceridemic hypobetalipoproteinemia, and hypercholesterolemia due to ligand-defective apoB, diseases affecting plasma cholesterol and apoB levels. [provided by RefSeq, Jul 2008]

Function	Apolipoprotein B is a major protein constituent of chylomicrons (apo B-48), LDL (apo B-100) and VLDL (apo B-100). Apo B-100 functions as a recognition signal for the cellular binding and internalization of LDL particles by the apoB/E receptor. [UniProt]
Highlight	Related products: Apolipoprotein antibodies: Apolipoprotein ELISA Kits: New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Palmitoylated; structural requirement for proper assembly of the hydrophobic core of the lipoprotein particle. [UniProt]
Cellular Localization	Cytoplasm. Secreted. [UniProt]

Images



ARG82626 Rat Apolipoprotein B ELISA Kit standard curve image

ARG82626 Rat Apolipoprotein B ELISA Kit results of a typical standard run with optical density reading at 450 nm.