Mouse Apolipoprotein A-IV (APOA4) ELISA Kit

Catalog No: #EK11334

Package Size: #EK11334-1 48T #EK11334-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Apolipoprotein A-IV (APOA4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	MGC142154; MGC142156;
Accession No.	P06728
Uniprot	P06728
GeneID	11808;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.67 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate APOA4 in samples. An antibody specific for APOA4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAPOA4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for APOA4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of APOA4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:APOA4 resides on chromosome 11 in close linkage to APOA1 and APOC3. APOA4 contains 3 exons separated by two introns, and is polymorphic, although most of the reported sequence polymorphisms occur in exon 3. The best validated and studied non-synonymous SNPs are a glutamine=> histidine substitution at codon 380 and a threonine=> serine substitution at codon 367; a sequence polymorphism has also been identified in the 3'UTR of the third exon. Intra-species comparative gene sequence analysis suggests that the APOA4 gene arose from APOA1 by gene duplication approximately 270 MYA.The primary translation product of the APOA4 gene is a 396-residue preprotein, which undergoes proteolytic processing to yield apo A-IV, a 376-reside mature O-linked glycoprotein.

Note: This product is for in vitro research use only