Apolipoprotein L1 (APOL1) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Apolipoprotein L1 (APOL1), ELISA Kit
Full Product Name	Goat Apolipoprotein L1 ELISA Kit
Product Gene Name	APOL1 elisa kit
Species Reactivity	Goat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	43,974 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (36649117..36663577). Location: 22q13.1
OMIM	603743
3D Structure	ModBase 3D Structure for O14791
Related Product Information for APOL1 elisa kit	MBS044571 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Apolipoprotein L1 (APOL1) 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 APOL1. The ELISA analytical biochemical technique of the MBS044571 kit is based on APOL1 antibody-APOL1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect APOL1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, APOL1. 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 APOL1 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 APOL1. It may not necessarily be applicable to this product.

NCBI GI #	211938442
NCBI GeneID	8542
NCBI Accession #	NP_001130013.1
UniProt Primary Accession #	O14791
UniProt Secondary Accession #	O60804; Q5R3P7; Q5R3P8; Q96AB8; Q96PM4; Q9BQ03; A5PLQ4; B4DU12; E9PF24
UniProt Related Accession #	O14791
GenBank Nucleotide #	NM_001136541.1
NCBI Official Full Name	apolipoprotein L1 isoform c
NCBI Official Synonym Full Names	apolipoprotein L, 1
NCBI Official Symbol	APOL1
NCBI Official Synonym Symbols	APOL; APO-L; FSGS4; APOL-I
UniProt Protein Name	Apolipoprotein L1

UniProt Synonym Protein Names	Apolipoprotein L; Apo-L; ApoL; Apolipoprotein L-I
Protein Family	Apolipoprotein
UniProt Gene Name	APOL1
UniProt Synonym Gene Names	APOL; Apo-L; ApoL; ApoL-I
UniProt Entry Name	APOL1_HUMAN
NCBI Protein Information	apolipoprotein L1
NCBI Summary for APOL1	This gene encodes a secreted high density lipoprotein which binds to apolipoprotein A-I. Apolipoprotein A-I is a relatively abundant plasma protein and is the major apoprotein of HDL. It is involved in the formation of most cholesteryl esters in plasma and also promotes efflux of cholesterol from cells. This apolipoprotein L family member may play a role in lipid exchange and transport throughout the body, as well as in reverse cholesterol transport from peripheral cells to the liver. Several different transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]
UniProt Comments for APOL1	APOL1: May play a role in lipid exchange and transport throughout the body. May participate in reverse cholesterol transport from peripheral cells to the liver. Defects in APOL1 are the cause of focal segmental glomerulosclerosis type 4 (FSGS4). It is a renal pathology defined by the presence of segmental sclerosis in glomeruli and resulting in proteinuria, reduced glomerular filtration rate and edema. Renal insufficiency often progresses to end-stage renal disease, a highly morbid state requiring either dialysis therapy or kidney transplantation. Belongs to the apolipoprotein L family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, chloride; Lipid-binding; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: extracellular space; extracellular region; intrinsic to membrane Molecular Function: chloride channel activity; protein binding; lipid binding Biological Process: cholesterol metabolic process; receptor-mediated endocytosis; killing of cells of another organism; cytolysis; innate immune response; chloride transport; lipoprotein metabolic process; lipid transport Disease: Focal Segmental Glomerulosclerosis 4, Susceptibility To
Research Articles on APOL1	**1.** APOL1 genotyping of African-American patients with systemic lupus erythematosus (SLE) might help identify patients at risk for collapsing glomerulopathy.
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