APOL1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	APOL1, Blocking Peptide
Full Product Name	APOL1 Immunizing Peptide
Product Gene Name	APOL1 blocking peptide
Product Synonym Names	APOL1; apolipoprotein L, 1; APO-L; APOL; APOL-I; OTTHUMP00000028705; apolipoprotein L-I; apolipoprotein L1
Sequence	C-NNNYKILQ ADQE
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	APOL1 peptide (MBS428007) is used for blocking the activity of APOL1 antibody (MBS421808)
Molecular Weight	42,158 Da
OMIM	603743
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for APOL1 blocking peptide	MBS428007 is a blocking peptide targeting APOL1. Also known as APOL1 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of APOL1 blocking peptide 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 #	21735614
NCBI GeneID	8542
NCBI Accession #	NP_003652.2
NCBI Related Accession #	NP_663318.1
UniProt Secondary Accession #	O60804; Q5R3P7; Q5R3P8; Q96AB8; Q96PM4; Q9BQ03; A5PLQ4; B4DU12; E9PF24
UniProt Related Accession #	O14791
GenBank Nucleotide #	NM_003661.3
NCBI Official Full Name	apolipoprotein L1 isoform a
NCBI Official Synonym Full Names	apolipoprotein L1
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; ApoL-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: Secreted; Channel, chloride; Lipid-binding; Secreted, signal peptide Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: extracellular region; extracellular space; intrinsic to membrane Molecular Function: chloride channel activity; lipid binding; protein binding Biological Process: cholesterol metabolic process; cytolysis; innate immune response; killing of cells of another organism; lipid transport; lipoprotein metabolic process; receptor-mediated endocytosis Disease: Focal Segmental Glomerulosclerosis 4, Susceptibility To
Research Articles on APOL1	**1.** Apolipoprotein L1 gene variants in deceased organ donors are associated with renal allograft failure.
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