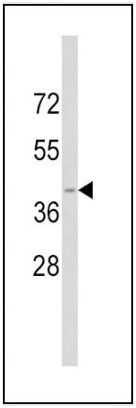
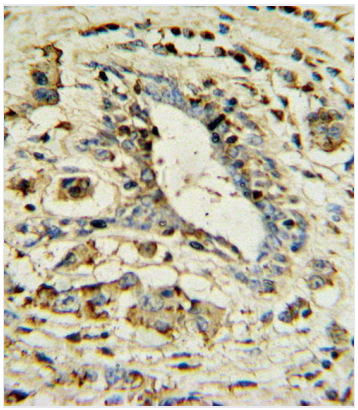
APOL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

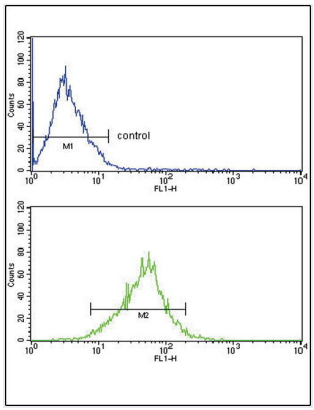
Product Name	APOL1, Polyclonal Antibody
Full Product Name	APOL1 (BH3 Domain) (Apolipoprotein L1, Apolipoprotein L-I, ApoL-I, Apolipoprotein L, Apo-L, ApoL) (MaxLight 650)
Product Gene Name	anti-APOL1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human APOL1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	44kDa
OMIM	603743
3D Structure	ModBase 3D Structure for O14791
Immunogen	Synthetic peptide corresponding to a portion of amino acids within aa147-176 from the BH3 Domain region of human APOL1, conjugated to KLH (O14791).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-APOL1 antibody	Antibodies; Lipoproteins
Applications Tested/Suitable for anti-APOL1 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-APOL1 antibody	FC/FACS: 1:10-1:50 FLISA: 1:1,000 IHC: 1:50-1:100 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-APOL1 antibody	MBS6463581 is an antibody targeting APOL1. Also known as APOL1 (BH3 Domain) (Apolipoprotein L1, Apolipoprotein L-I, ApoL-I, Apolipoprotein L, Apo-L, ApoL) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-APOL1 antibody	1. Li, Q., Clin. Chim. Acta 403(1-2), 152-155 (2009). 2. Zhaorigetu, S., Autophagy 4(8), 1079-1082 (2008).
Other Notes	Small volumes of anti-APOL1 antibody 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.



Western Blot (WB) of anti-APOL1 antibody
Western blot analysis of APOL1 Antibody in MDA-MB468 cell line lysates (35ug/lane). APOL1(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-APOL1 antibody
APOL1 Antibody IHC analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the APOL1 Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-APOL1 antibody
APOL1 Antibody (19169) FC analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
UniProt Primary Accession #	O14791
UniProt Related Accession #	O14791
GenBank Nucleotide #	NM_003661
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
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, signal peptide; Secreted; Channel, chloride; Lipid-binding Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: extracellular space; extracellular region; intrinsic to membrane Molecular Function: protein binding; chloride channel activity; lipid binding Biological Process: receptor-mediated endocytosis; cholesterol metabolic process; killing of cells of another organism; cytolysis; innate immune response; lipoprotein metabolic process; chloride transport; lipid transport Disease: Focal Segmental Glomerulosclerosis 4, Susceptibility To
Research Articles on APOL1	**1.** Apolipoprotein L1 risk variants are present in black South Africans with similar frequencies between chronic kidney disease patients, first-degree relatives, and healthy controls.
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