

# CoraLite® Plus 647-conjugated APOL1-Specific Monoclonal antibody

Catalog Number: **CL647-66124**

## Basic Information

<b>Catalog Number:</b> CL647-66124	<b>GenBank Accession Number:</b> BC017331	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2000 µg/ml	<b>GeneID (NCBI):</b> 8542	<b>CloneNo.:</b> 1G12D11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O14791	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> apolipoprotein L, 1	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Immunogen Catalog Number:</b> AG2016	<b>Calculated MW:</b> 44 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF/ICC	<b>Positive Controls:</b> IF : human liver tissue,
<b>Species Specificity:</b> human	

## Background Information

Human apolipo-protein L1 (APOL1) is a minor component of plasma high density lipoprotein (HDL) particles, acting as an interacting protein of apolipoprotein A1 (ApoA1). The human ApoL protein family was thought to be predominantly involved in lipid transport and metabolism. APOL1 is also involved in host innate immunity against Trypanosoma parasites. Once activated, APOL1 can lyse the parasite and protect human from infection. Genetic variants in APOL1 gene, which are found in African ancestry with high frequency, associate with chronic kidney disease, like focal segmental glomerulosclerosis (FSGS), HIV-associated nephropathy (HIVAN), and hypertensive nephropathy. APOL1 share structural and functional similarities with proteins of the Bcl-2 family and may have roles in apoptosis and autophagy. It is notable that APOL1 exists only in human and a few other primate species, and mouse does not express an APOL1 orthologue. This antibody is conjugated with CL647, Ex/Em 650 nm/665 nm.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

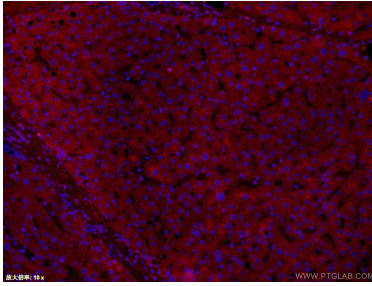
For technical support and original validation data for this product please contact:

T: 4006900926

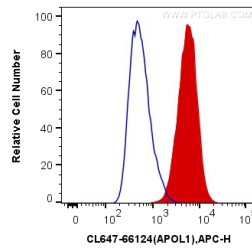
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver tissue using CL647-66124 (APOL1-Specific antibody) at dilution of 1:50.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug CoraLite® Plus 647 Anti-Human APOL1-Specific (CL647-66124, Clone:1G12D11) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).