

For Research Use Only

# CoraLite® Plus 488-conjugated APOL1-Specific Monoclonal antibody



Catalog Number: CL488-66124

## Basic Information

<b>Catalog Number:</b> CL488-66124	<b>GenBank Accession Number:</b> BC017331	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 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> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG2016	<b>Calculated MW:</b> 44 kDa	
	<b>Observed MW:</b> 39-45 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF : HepG2 cells,
<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 has 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 recognizes the endogenous ApoL1 of 39-45 kDa in blood lysate.

## 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:

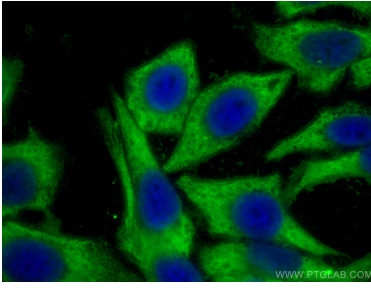
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 APOL1-Specific antibody (CL488-66124, Clone: 1G12D11) at dilution of 1:200.