

CoraLite®594-conjugated APOL1-Specific Monoclonal antibody

Catalog Number: **CL594-66124**

Basic Information

Catalog Number:

CL594-66124

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG2016

GenBank Accession Number:

BC017331

GeneID (NCBI):

8542

UNIPROT ID:

O14791

Full Name:

apolipoprotein L, 1

Calculated MW:

44 kDa

Observed MW:

39-45 kDa

Purification Method:

Protein A purification

CloneNo.:

1G12D11

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human

Positive Controls:

IF/ICC : HepG2 cells,

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 recognizes the endogenous ApoL1 of 39-45 kDa in blood lysate. This antibody is specific to APOL1.

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

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite®594 APOL1-Specific antibody (CL594-66124, Clone: 1G12D11) at dilution of 1:200.