

For Research Use Only

CoraLite®594-conjugated APOL1-Specific Monoclonal antibody



Catalog Number:CL594-66124

Basic Information

Catalog Number: CL594-66124	GenBank Accession Number: BC017331	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 8542	CloneNo.: 1G12D11
Source: Mouse	UNIPROT ID: O14791	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Full Name: apolipoprotein L, 1	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG2016	Calculated MW: 44 kDa	
	Observed MW: 39-45 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF : HepG2 cells,
Species Specificity: 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. 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

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

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