

For Research Use Only

# APOL1 Polyclonal antibody

Catalog Number: 11486-2-AP

Featured Product

24 Publications



## Basic Information

### Catalog Number:

11486-2-AP

### Size:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### 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 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human

### Cited Species:

human, trypanosoma brucei

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB**: A375 cells, HepG2 cells, A2780 cells, human plasma, SW 1990 cells, A549 cells, SKOV-3 cells, HeLa cells, MCF-7 cells

**IP**: HepG2 cells, human plasma tissue

**IHC**: human kidney tissue, human liver tissue, human pancreas tissue, human spleen tissue, human testis tissue

**IF/ICC**: HEK-293 cells, 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.

## Notable Publications

| Author          | Pubmed ID | Journal                  | Application |
|-----------------|-----------|--------------------------|-------------|
| David H Vondorp | 36449077  | Pflugers Arch            | IF          |
| Xiaohui Liu     | 29123261  | Br J Cancer              | IHC         |
| Russell Thomson | 24808134  | Proc Natl Acad Sci U S A | WB          |

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

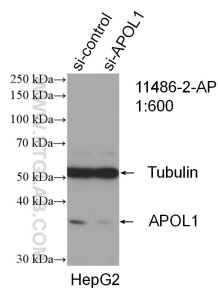
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

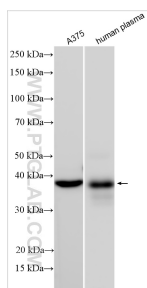
W: [ptgcn.com](http://ptgcn.com)

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

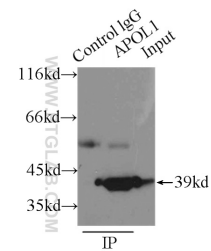
## Selected Validation Data



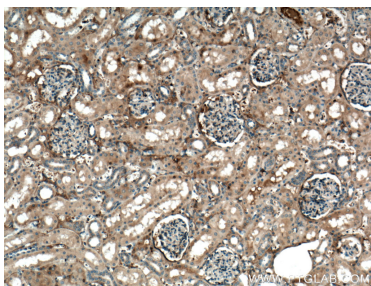
WB result of APOL1 antibody (11486-2-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-APOL1 transfected HepG2 cells.



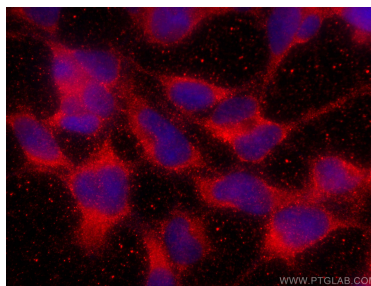
Various lysates were subjected to SDS PAGE followed by western blot with 11486-2-AP (APOL1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-APOL1 (IP:11486-2-AP, 3ug; Detection:11486-2-AP 1:500) with HepG2 cells lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 11486-2-AP (APOL1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using APOL1 antibody (11486-2-AP) at dilution of 1:400 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).