

For Research Use Only

# APOB Polyclonal antibody

Catalog Number: 20578-1-AP

50 Publications



## Basic Information

Catalog Number:

20578-1-AP

Concentration:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_000384

GeneID (NCBI):

338

UNIPROT ID:

P04114

Full Name:

apolipoprotein B (including Ag(x) antigen)

Calculated MW:

516 kDa

Observed MW:

150-250 kDa, 400-520 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IHC: 1:50-1:500

IF-P: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, hamster

**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: human plasma, HEK-293 cells, mouse liver tissue, human plasma tissue

IHC: human liver tissue, human hepatocirrhosis tissue

IF-P: mouse liver tissue,

## Background Information

The apolipoprotein B (APOB) is a plasma protein synthesized primarily in the liver and intestine and play an important role in lipid and cholesterol metabolism. The APOB encodes two different isoproteins through mRNA editing, APOB-48 and APOB-100. APOB-48 and APOB-100 is present in both human liver and intestine. APOB-100 is essential for the assembly of VLDL in the liver. APOB-48 is essential for the assembly of chylomicrons in the intestine. It is well established that APOB-100 levels are associated with coronary heart disease. This antibody recognizes both of APOB-48, APOB-100 (PMID:11839763, PMID:2450346).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ying Zhang	36172518	Front Nutr	WB
Fangjun Yu	34493722	Nat Commun	WB
William A. Banks	36293369	Int J Mol Sci	WB

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

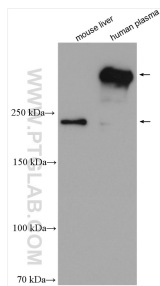
T: 4006900926

E: Proteintech-CN@ptglab.com

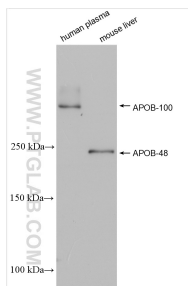
W: ptgcn.com

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

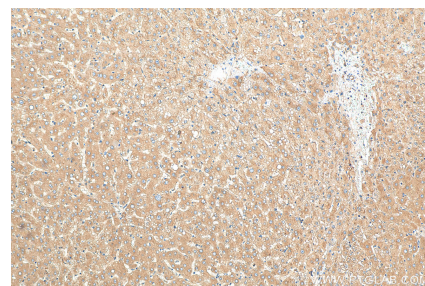
## Selected Validation Data



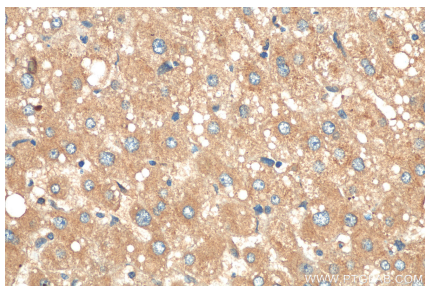
mouse liver and human plasma were subjected to Tris-acetate gel system followed by western blot with 20578-1-AP (APOB antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



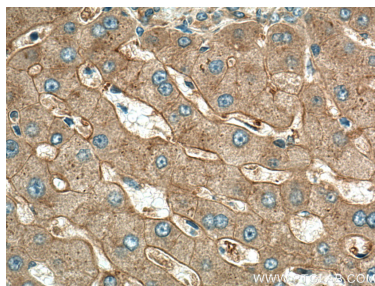
Various lysates were subjected to Tris-acetate gel system followed by western blot with 20578-1-AP (APOB antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



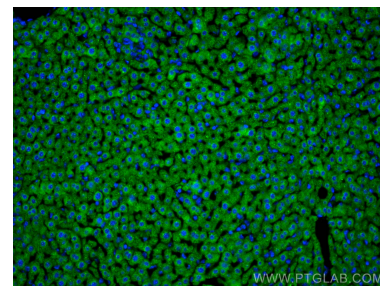
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20578-1-AP (APOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



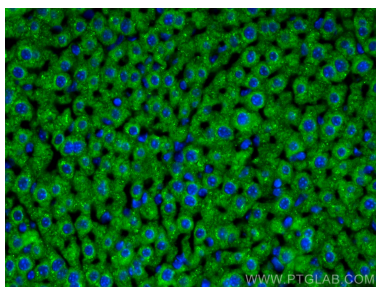
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20578-1-AP (APOB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



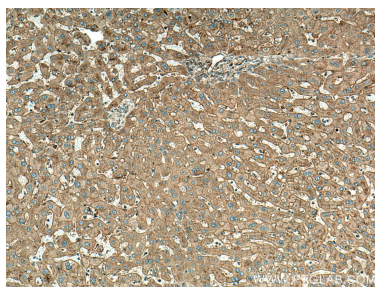
Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 20578-1-AP (APOB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using APOB antibody (20578-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using APOB antibody (20578-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 20578-1-AP (APOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).