

For Research Use Only

# APOB Polyclonal antibody

Catalog Number: 20578-1-AP **34 Publications**



## Basic Information

<b>Catalog Number:</b> 20578-1-AP	<b>GenBank Accession Number:</b> NM_000384	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 338	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> apolipoprotein B (including Ag(x) antigen)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 516 kDa	
	<b>Observed MW:</b> 150-250 kDa, 400-520 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	WB : human plasma, HEK-293 cells, mouse liver tissue, human plasma tissue
<b>Species Specificity:</b> human, mouse	IHC : human liver tissue, human hepatocirrhosis tissue
<b>Cited Species:</b> human, rat, mouse, hamster	

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

## 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

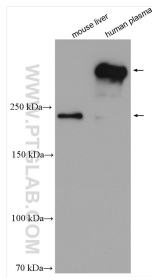
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

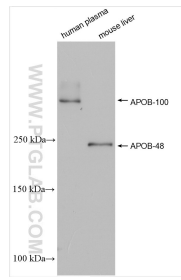
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

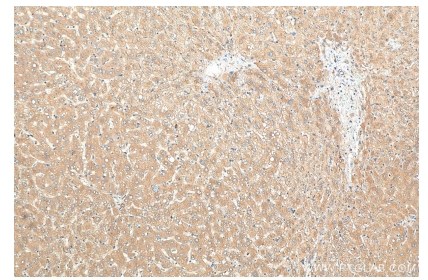
## Selected Validation Data



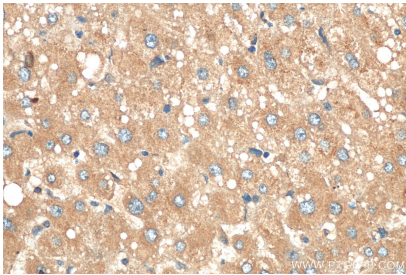
mouse liver and human plasma were subjected to Tris-acetate gel system followed by western blot with 20578-1-AP (APOB antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



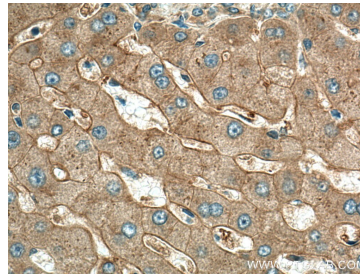
Various lysates were subjected to Tris-acetate gel system followed by western blot with 20578-1-AP (APOB antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



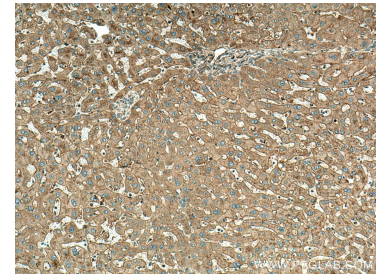
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 20578-1-AP (APOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).