

For Research Use Only

# APOB Polyclonal antibody

Catalog Number: 27751-1-AP



## Basic Information

<b>Catalog Number:</b> 27751-1-AP	<b>GenBank Accession Number:</b> NM_000384	<b>Purification Method:</b> Antigen affinity purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 338	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IHC: 1:50-1:500
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P04114	
<b>Immunogen Catalog Number:</b> AG26773	<b>Full Name:</b> apolipoprotein B (including Ag(x) antigen)	
	<b>Calculated MW:</b> 516 kDa	
	<b>Observed MW:</b> 150-250 kDa, 400-520 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> mouse liver tissue, HepG2 cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> 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. Unlike humans and rabbits, rats and mice secrete both apoB-100- and apoB-48-containing lipoproteins from the liver as a result of the hepatic expression of APOBEC-1 (PMID: 9633945). This antibody recognizes both of APOB-48, APOB-100 (PMID:11839763, PMID:2450346).

## 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:

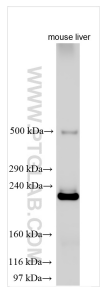
T: 4006900926

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

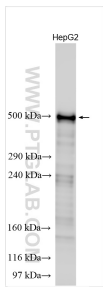
W: [ptgcn.com](http://ptgcn.com)

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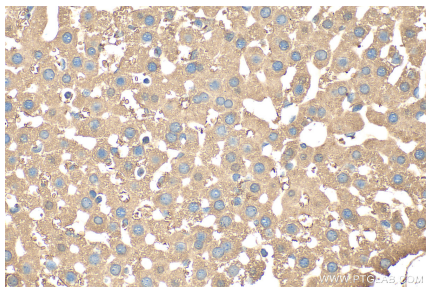
## Selected Validation Data



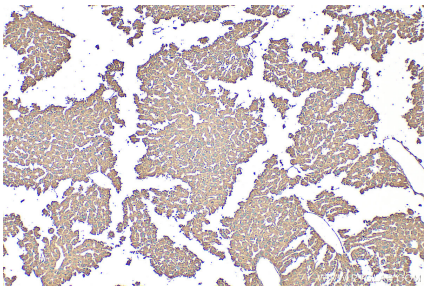
Various lysates were subjected to Tris-Acetate gel system followed by western blot with 27751-1-AP (APOB antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 27751-1-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 mouse liver tissue slide using 27751-1-AP (APOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).