

## Basic Information

Product Name	Anti-Apolipoprotein AI/APOA1 Antibody	
Gene Name	APOA1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived mouse APOA1 recombinant protein (Position: D25-Q264). Mouse APOA1 shares 64% and 68.6% amino acid (aa) sequence identity with human and rat APOA1, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	25 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

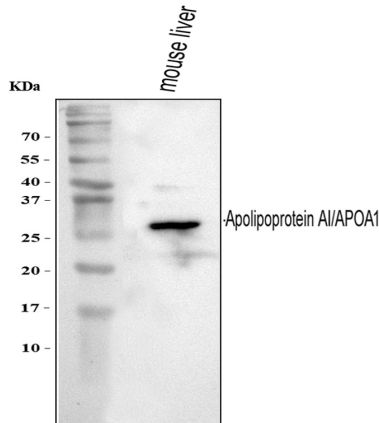
## Background Information

Apolipoprotein A-1, also known as APOA1, is a human protein with a specific role in lipid metabolism. It binds to lipopolysaccharide or endotoxin, and has a major role in the anti-endotoxin function of HDL. The gene is mapped to 11q23. And it is a single polypeptide chain with 243 amino acid residues of known primary amino acid sequence. The ApoA-I protein promotes cholesterol efflux from tissues to the liver for excretion. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA-I is also isolated as a prostacyclin (PGI<sub>2</sub>) stabilizing factor, and thus may have an anticlotting effect. Defects in the gene encoding it are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Additionally, ApoA-I overexpression promotes macrophage-specific reverse cholesterol transport.

## Reference

Anti-Apolipoprotein AI/APOA1 Antibody被引用在1文献中。

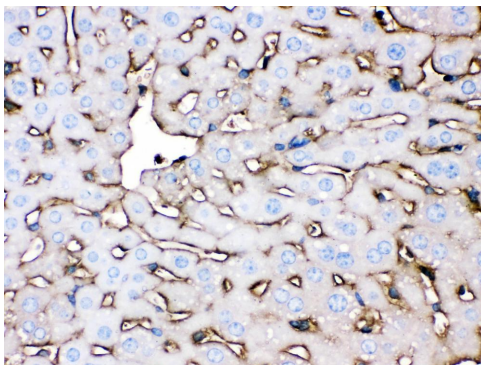
## Selected Validation Data



Western blot analysis of Apolipoprotein AI/APOA1 using anti-Apolipoprotein AI/APOA1 antibody (PB9844). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse liver tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Apolipoprotein AI/APOA1 antigen affinity purified polyclonal antibody (PB9844) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Apolipoprotein AI/APOA1 at approximately 25 kDa. The expected band size for Apolipoprotein AI/APOA1 is at 31 kDa.



IHC analysis of Apolipoprotein AI/APOA1 using anti-Apolipoprotein AI/APOA1 antibody (PB9844).

Apolipoprotein AI/APOA1 was detected in a paraffin-embedded section of mouse liver tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Apolipoprotein AI/APOA1 Antibody (PB9844) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.