

**Anti-APOA1 Antibody**  
**Catalog # ABO12531****Specification**

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**Anti-APOA1 Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P04639</a>
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Apolipoprotein A-I(APOA1) detection. Tested with WB, IHC-P in Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-APOA1 Antibody - Additional Information**

**Gene ID** 25081

**Other Names**

Apolipoprotein A-I, Apo-AI, ApoA-I, Apolipoprotein A1, Proapolipoprotein A-I, ProapoA-I, APOA1

**Calculated MW**

30062 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Rat<br>

**Subcellular Localization**

Secreted.

**Tissue Specificity**

Major protein of plasma HDL, also found in chylomicrons.

**Protein Name**

Apolipoprotein A-I

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

E. coli-derived rat APOA1 recombinant protein (Position: D25-A259). Rat APOA1 shares 61.7% and 68.6% amino acid (aa) sequence identity with human and mouse APOA1, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-APOA1 Antibody - Protein Information**

**Name** ApoA1

**Function**

Participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin cholesterol acyltransferase (LCAT). As part of the SPAP complex, activates spermatozoa motility.

**Cellular Location**

Secreted.

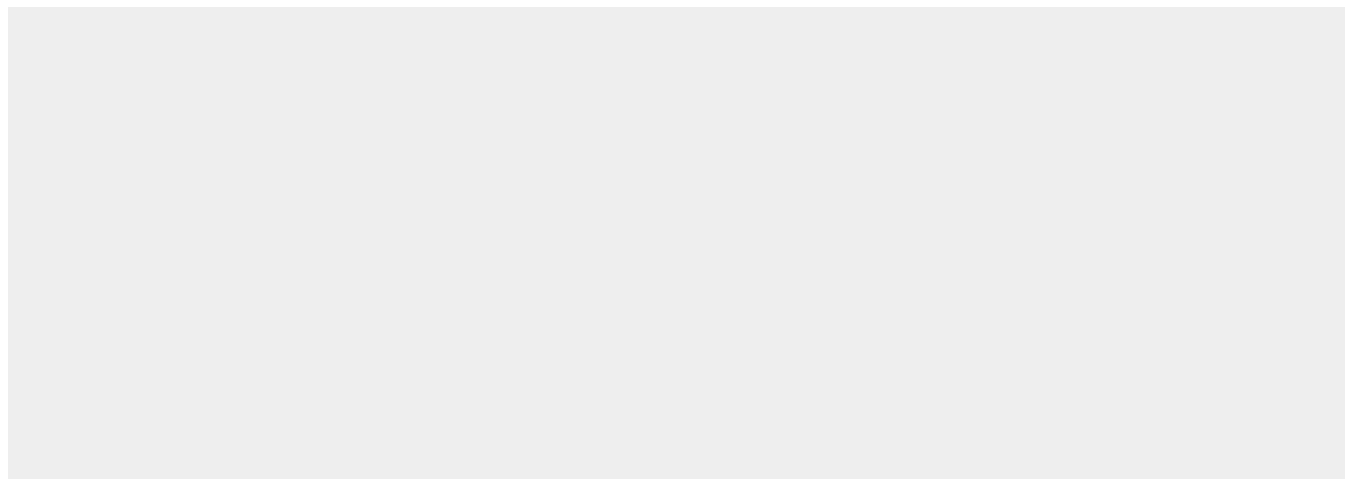
**Tissue Location**

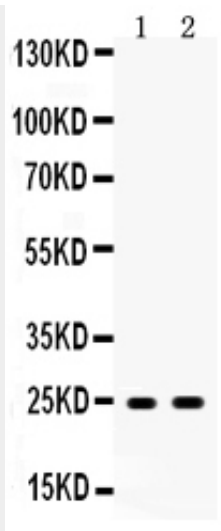
Major protein of plasma HDL, also found in chylomicrons

**Anti-APOA1 Antibody - Protocols**

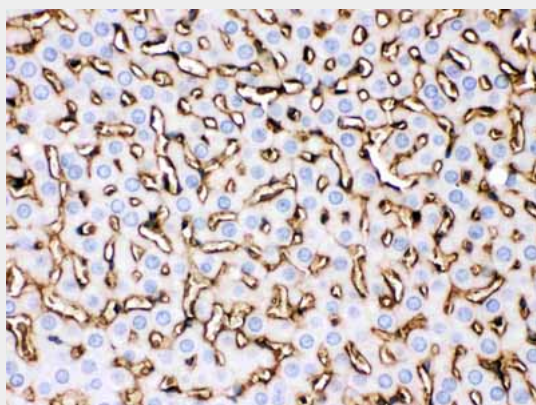
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

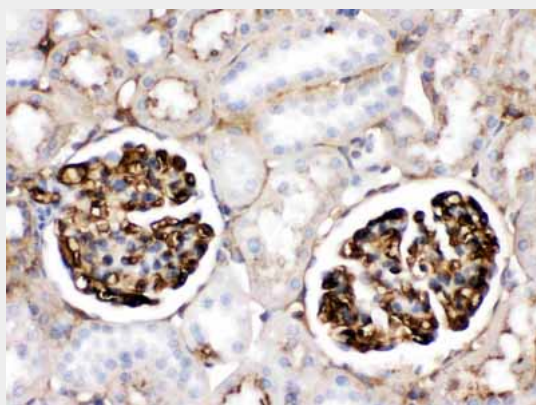
**Anti-APOA1 Antibody - Images**



Western blot analysis of APOA1 expression in rat liver extract (lane 1) and rat testis extract (lane 2). APOA1 at 24KD was detected using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody(Catalog # ABO12531) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



APOA1 was detected in paraffin-embedded sections of rat liver tissues using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12531) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



APOA1 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12531) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

#### Anti-APOA1 Antibody - Background

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.