

**ApoA1 Antibody (NT)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11262****Specification**

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**ApoA1 Antibody (NT) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P02647</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	30778

**ApoA1 Antibody (NT) - Additional Information****Gene ID** 335

Positive Control	Western blot: HepG2 and 293 cell lysate, IHC: human placenta and hepatocarcinoma tissue
Application & Usage	Western blot: ~1:1000, IHC: ~1:10-1:50.

**Other Names**

APOA1; Apolipoprotein A-I; Apolipoprotein A1; Truncated apolipoprotein A-I; Apolipoprotein A-I(1-242)

**Target/Specificity**

ApoA1

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µl of antibody in PBS with 0.09% (W/V) sodium azide

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

ApoA1 Antibody (NT) is for research use only and not for use in diagnostic or therapeutic procedures.

## **ApoA1 Antibody (NT) - Protein Information**

**Name** APOA1 ([HGNC:600](#))

### **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. Synthesized in the liver and small intestine. The oxidized form at Met-110 and Met-136 is increased in individuals with increased risk for coronary artery disease, such as in carrier of the eNOSa/b genotype and exposure to cigarette smoking. It is also present in increased levels in aortic lesions relative to native ApoA-I and increased levels are seen with increasing severity of disease

## **ApoA1 Antibody (NT) - 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](#)

## **ApoA1 Antibody (NT) - Images**

## **ApoA1 Antibody (NT) - Background**

APOA1 promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A-I is the major protein component of high density lipoprotein (HDL) in the plasma. Synthesized in the liver and small intestine, it consists of two identical chains of 77 amino acids; an 18-amino acid signal peptide is removed co-translationally and a 6-amino acid propeptide is cleaved post-translationally. Variation in the latter step, in addition to modifications leading to so-called isoforms, is responsible for some of the polymorphism observed. APOA1 is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the C-III gene is transcribed convergent in relation to A-I. Defects in the apolipoprotein A-1 gene are associated with HDL deficiency and Tangier disease.