

**Goat Anti-APOC1 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1081a

## Specification

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### Goat Anti-APOC1 Antibody - Product Information

Application	IHC, E
Primary Accession	<a href="#">P02654</a>
Other Accession	<a href="#">NP_001636</a> , <a href="#">341</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	9332

### Goat Anti-APOC1 Antibody - Additional Information

**Gene ID** 341

#### Other Names

Apolipoprotein C-I, Apo-CI, ApoC-I, Apolipoprotein C1, Truncated apolipoprotein C-I, APOC1

#### Dilution

IHC~~1:100~500

E~~N/A

#### Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat Anti-APOC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat Anti-APOC1 Antibody - Protein Information

**Name** APOC1

#### Function

Inhibitor of lipoprotein binding to the low density lipoprotein (LDL) receptor, LDL receptor-related protein, and very low density lipoprotein (VLDL) receptor. Associates with high density lipoproteins (HDL) and the triacylglycerol-rich lipoproteins in the plasma and makes up about 10% of the

protein of the VLDL and 2% of that of HDL. Appears to interfere directly with fatty acid uptake and is also the major plasma inhibitor of cholesteryl ester transfer protein (CETP). Binds free fatty acids and reduces their intracellular esterification. Modulates the interaction of APOE with beta-migrating VLDL and inhibits binding of beta-VLDL to the LDL receptor-related protein.

#### **Cellular Location**

Secreted.

#### **Tissue Location**

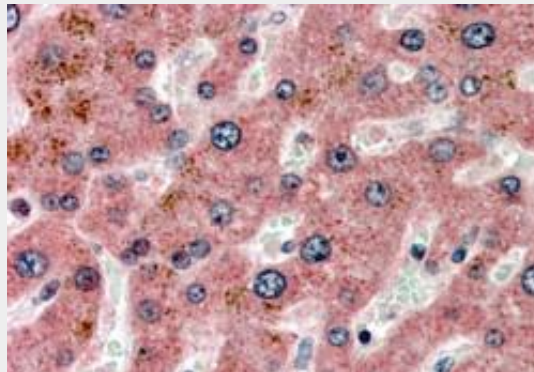
Synthesized mainly in liver and to a minor degree in intestine. Also found in the lung and spleen

### **Goat Anti-APOC1 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](#)

### **Goat Anti-APOC1 Antibody - Images**



AF1081a (3.8 µg/ml) staining of paraffin embedded Human Liver. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

### **Goat Anti-APOC1 Antibody - Background**

The protein encoded by this gene is a member of the apolipoprotein C1 family. This gene is expressed primarily in the liver, and it is activated when monocytes differentiate into macrophages. A pseudogene of this gene is located 4 kb downstream in the same orientation, on the same chromosome. This gene is mapped to chromosome 19, where it resides within a apolipoprotein gene cluster. Alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined.

### **Goat Anti-APOC1 Antibody - References**

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey

SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.  
Apolipoprotein C-I genotype and serum levels of triglycerides, C-reactive protein and coronary heart disease. Olsson B, et al. Metabolism, 2010 Jun 24. PMID 20580041.  
Evaluating the discriminative power of multi-trait genetic risk scores for type 2 diabetes in a northern Swedish population. Fontaine-Bisson B, et al. Diabetologia, 2010 Oct. PMID 20571754.  
APOE/C1/C4/C2 gene cluster genotypes, haplotypes and lipid levels in prospective coronary heart disease risk among UK healthy men. Ken-Dror G, et al. Mol Med, 2010 Sep-Oct. PMID 20498921.  
No interaction between alcohol consumption and HDL-related genes on HDL cholesterol levels. Marques-Vidal P, et al. Atherosclerosis, 2010 Aug. PMID 20430392.