

**Goat Anti-APOA4 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1074a****Specification**

---

**Goat Anti-APOA4 Antibody - Product Information**

Application	WB, IHC, E
Primary Accession	<a href="#">P06727</a>
Other Accession	<a href="#">NP_000473</a> , <a href="#">337</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5mg/ml
Isotype	IgG
Calculated MW	45372

**Goat Anti-APOA4 Antibody - Additional Information****Gene ID** 337**Other Names**

Apolipoprotein A-IV, Apo-AIV, ApoA-IV, Apolipoprotein A4, APOA4

**Dilution**WB~~1:1000  
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-APOA4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-APOA4 Antibody - Protein Information****Name** APOA4**Function**

May have a role in chylomicrons and VLDL secretion and catabolism. Required for efficient activation of lipoprotein lipase by ApoC-II; potent activator of LCAT. ApoA-IV is a major component

of HDL and chylomicrons.

#### **Cellular Location**

Secreted.

#### **Tissue Location**

Synthesized primarily in the intestine and secreted in plasma

### **Goat Anti-APOA4 Antibody - Protocols**

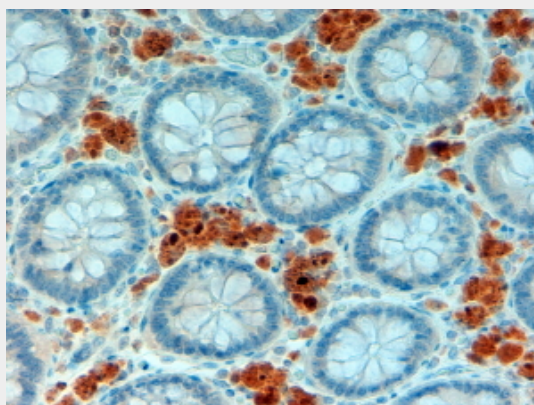
Provided below are standard protocols that you may find useful for product applications.

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

### **Goat Anti-APOA4 Antibody - Images**



AF1074a (0.01 µg/ml) staining of Human Duodenum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1074a (2 µg/ml) staining of paraffin embedded Human Intestine. Steamed antigen retrieval

with citrate buffer pH 6, HRP-staining.

#### **Goat Anti-APOA4 Antibody - Background**

Apolipoprotein (apo) A-IV gene contains 3 exons separated by two introns. A sequence polymorphism has been identified in the 3'UTR of the third exon. The primary translation product is a 396-residue preprotein which after proteolytic processing is secreted its primary site of synthesis, the intestine, in association with chylomicron particles. Although its precise function is not known, apo A-IV is a potent activator of lecithin-cholesterol acyltransferase in vitro.

#### **Goat Anti-APOA4 Antibody - References**

The APOA1/C3/A4/A5 cluster and markers of allostatic load in the Boston Puerto Rican Health Study. Mattei J, et al. Nutr Metab Cardiovasc Dis, 2010 Jul 29. PMID 20674306. 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. Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Ruaño G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615. No interaction between alcohol consumption and HDL-related genes on HDL cholesterol levels. Marques-Vidal P, et al. Atherosclerosis, 2010 Aug. PMID 20430392. APOA1 and APOA4 gene polymorphisms influence the effects of dietary fat on LDL particle size and oxidation in healthy young adults. Gomez P, et al. J Nutr, 2010 Apr. PMID 20164363.