

Anti-Apolipoprotein A-I (GOAT) Antibody - 600-101-109
Code: 600-101-109

Size: 1 mg

Product Description: Anti-Apolipoprotein A-I (GOAT) Antibody - 600-101-109

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Goat
Gene Name	APOA1
Species Reactivity	human
Buffer	0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Synonyms	goat anti-Apolipoprotein A-I Antibody, goat anti-APOA1 antibody, goat anti-APO-A1 antibody, goat anti-APOA-1 antibody, APOA1/APOC3 fusion gene antibody, Apolipoprotein A I precursor antibody, Apolipoprotein AI antibody, Apolipoprotein of high density lipoprotein antibody, ProapoA-I, Proapolipoprotein A-I, ApoA-I
Application Note	Anti-apoLipoprotein antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation, immunohistochemistry and for western blotting for highly sensitive qualitative analysis.
Background	Anti-Apolipoprotein A-I antibody recognizes the gene product of APOA1. Apolipoprotein 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 convergently in relation to A-I. Defects in the apolipoprotein A-1 gene are associated with HDL deficiency and Tangier disease. Anti-Apolipoprotein A-I is useful for researchers interested in cardiovascular research.
Purity And Specificity	Goat Anti-Apolipoprotein A-I Antibody has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other apoLipoproteins and human serum proteins to remove any unwanted specificities. Typically less than 1% cross-reactivity against other types of apoLipoprotein was detected by ELISA against purified standards. This antibody reacts with human apoLipoprotein A-I and has negligible cross-reactivity with Type A-II, B, C-I, C-II, C-III, E and J apoLipoproteins. Specific cross-reaction of anti-apoLipoprotein antibodies with antigens from other species has not been determined. Non-specific cross-reaction of anti-apoLipoprotein antibodies with other human serum proteins is negligible.
Assay Dilutions	User Optimized
ELISA	1:10,000 - 1:20,000
Western Blot	1:1,000 - 1:2,000
Immunohistochemistry	1:50 - 1:200
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	apoLipoprotein Type A-I was isolated from human plasma by density gradient centrifugation followed by HPLC purification, followed by repeated immunizations in goat.
Related Products	

600-101-110	Anti-Apolipoprotein A-II (GOAT) Antibody - 600-101-110
600-101-111	Anti-Apolipoprotein B (GOAT) Antibody - 600-101-111
600-101-112	Anti-Apolipoprotein C-I (GOAT) Antibody - 600-101-112

Related Links

UniProtKB - P02647

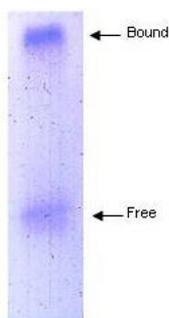
<http://www.uniprot.org/uniprot/P02647>

NCBI - 4557321 <http://www.ncbi.nlm.nih.gov/protein/4557321>

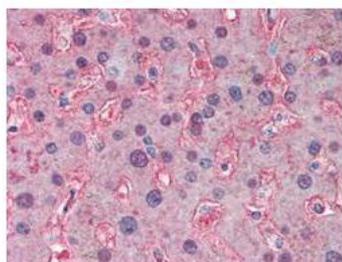
GenElD - 335

Images

- 1 Coomassie stained gel showing both free and HDL bound apoA-I eluted from a solid phase resin prepared using Rockland's anti-Human apolipoprotein A-I antibody. The resin was reacted with human serum prior to washing and elution of bound proteins. The gel was composed of 0.75% agarose in a native buffer system. Separation occurred at room temperature.



- 2 Rockland's anti-APOA1 antibody was used at a 5 ug/ml to detect signal in human liver tissue. Tissue was formalin-fixed and paraffin embedded. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.