

Anti-APOLIPOPROTEIN A-I APOA1 Antibody

Catalog Number: A00717-1

About APOA1

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.

Overview

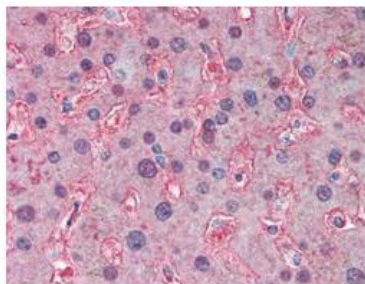
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| Product Name | Anti-APOLIPOPROTEIN A-I APOA1 Antibody |
| Reactive Species | Human |
| Description | Boster Bio Anti-APOLIPOPROTEIN A-I APOA1 Antibody (Catalog # A00717-1). Tested in IHC, WB applications. This antibody reacts with Human. |
| Application | ELISA, IP, IF, IHC, WB |
| Clonality | Polyclonal |
| Formulation | 0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0, 0.01% (w/v) Sodium Azide |
| Storage Instructions | 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. Expiration date is one (1) year from date of opening. (Ship on wet ice.) |
| Host | Goat |
| Uniprot ID | P02647 |

Technical Details

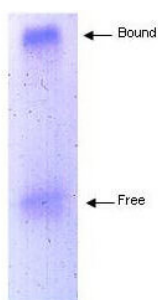
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| Immunogen | apoLipoprotein Type A-I was isolated from human plasma by density gradient centrifugation followed by HPLC purification, followed by repeated immunizations in goat. |
| Predicted Reactive Species | Primate |
| Isotype | IgG |
| Form | Liquid (sterile filtered) |

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|---------------------|---|
| Concentration | 1.0 mg/mL by UV absorbance at 280 nm |
| Purification | 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. |
| Suggested Dilutions | <p>ELISA: 1:10,000 - 1:20,000 IHC: 1:50 - 1:200 IF Microscopy: User optimized IP: 1:100 WB: 1:1,000 - 1:2,000</p> <p>Anti-apoLipoprotein antibodies have been tested by Western blot and IHC and are suitable 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.</p> |

Anti-APOLIPOPROTEIN A-I APOA1 Antibody (A00717-1) Images



Boster'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.



Coomassie stained gel showing both free and HDL bound apoA-I eluted from a solid phase resin prepared using Boster'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.

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Anti-APOLIPOPROTEIN A-I APOA1 Antibody

For Research Use Only. Not for use in diagnostic procedures.