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ApoA4 Antibody

Catalog # ASC11187

Product Information

Application	WB, E
Primary Accession	P06727
Other Accession	NCBI accession No. AAA51744, 71773110
Reactivity	Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	45372
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ApoA4 antibody can be used for detection of ApoA4 by Western blot at 1 g/mL.

Additional Information

Gene ID	337
Other Names	Apolipoprotein A-IV, Apo-AIV, ApoA-IV, Apolipoprotein A4, APOA4
Target/Specificity	APOA4;
Reconstitution & Storage	ApoA4 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	ApoA4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

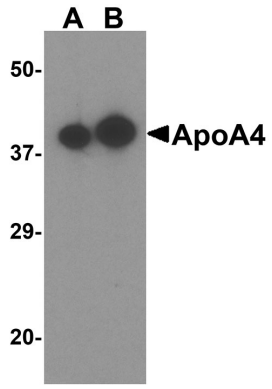
Background

ApoA4 Antibody: Apolipoprotein A4 (also known as ApoA-IV) is a plasma protein that is an O-linked glycoprotein after proteolytic processing. ApoA4 is a major constituent of HDL and it also can be found on the surface of newly synthesized chylomicrons. The physiological function of ApoA4 is not completely identified so far, but evidence from several in vitro studies indicate that this apolipoprotein is involved in several steps of the reverse cholesterol transport pathway, which transports cholesterol from peripheral cells back to the liver.

References

Karathanasis SK, Oettgen P, Haddad IA, et al. Structure, evolution, and polymorphisms of the human apolipoprotein A4 gene (APOA4). Proc. Natl. Acad. Sci. USA 1986; 83: 8457-61
Kamboh MI, Friedlaender JS, Ahn YI, et al. A common deletion polymorphism in the apolipoprotein A4 gene and its significance in lipid metabolism. Arterioscler. Thromb. 1994; 14: 656-62
Kronenberg F, Stuhlinger M, Trenkwalder E, et al. Low apolipoprotein A-IV plasma concentrations in men with coronary artery disease. J. Am. Coll. Cardiol. 2000; 36:751-7.
Von Eckardstein A, Huang Y, Wu S, et al. Lipoproteins containing apolipoprotein A-IV but not apolipoprotein A-I take up and esterify cell-derived cholesterol in plasma. Arterioscler. Thromb. Vasc. Biol. 1995; 15:1755-63.

Images



Western blot analysis of ApoA4 in human testis tissue lysate with ApoA4 antibody at (A) 0.5 and (B) 1 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.