

ApoA4 Antibody
Catalog # ASC11187

Specification

ApoA4 Antibody - Product Information

Application	WB
Primary Accession	P06727
Other Accession	NCBI accession No. AAA51744, 71773110
Reactivity	Human, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 41 kDa
Application Notes	Observed: 40 kDa KDa ApoA4 antibody can be used for detection of ApoA4 by Western blot at 1 µg/mL.

ApoA4 Antibody - Additional Information

Gene ID	337
Target/Specificity	
APOA4;	

Reconstitution & Storage

ApoA4 antibody can be stored at 4°C for three months and -20°C, 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.

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

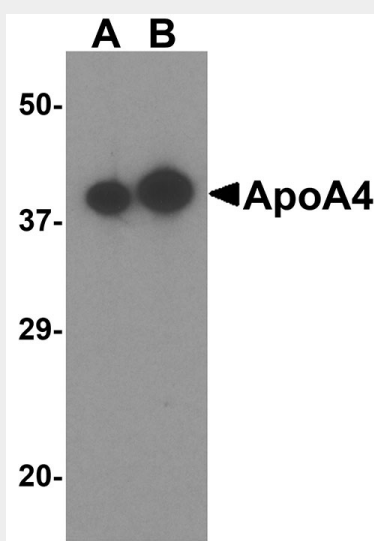
Synthesized primarily in the intestine and secreted in plasma

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](#)

ApoA4 Antibody - Images



Western blot analysis of ApoA4 in human testis tissue lysate with ApoA4 antibody at (A) 0.5 and (B) 1 $\mu\text{g/mL}$.

ApoA4 Antibody - 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.

ApoA4 Antibody - 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.