



Product Information Sheet

Polyclonal Anti- Apolipoprotein A-1, APOA1

Catalogue No. PA1247

Lot No. 09G01

Ig type rabbit IgG

Size 100µg/vial

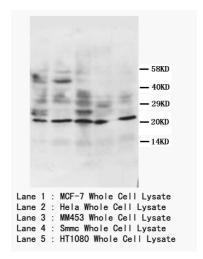
Specificity

Human, rat, mouse.

No cross reactivity with other proteins.

Recommended application

Western blot



Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human APOA1, different to the related mouse sequence by two amino acids.

Purity

Immunogen affinity purified.

Application

	Concen- tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1μg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na $_2$ HPO $_4$, 0.05mg Thimerosal, 0.05mg NaN $_3$.

Reconstitution

To reorder contact us at:

0.2ml of distilled water will yield a concentration of 500µg/ml.

Antagene, Inc.

Storage

Toll Free: 1(866)964-2589

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

email: Info@antageneinc.com

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.

BACKGROUND

Apolipoprotein A-1, also known as APOA1, is a human protein with a specific role in lipid metabolism. It binds to lipopolysaccharide or endotoxin, and has a major role in the anti-endotoxin function of HDL.¹ The gene is mapped to 11q23. And it is a single polypeptide chain with 243 amino acid residues of known primary amino acid sequence.² The ApoA-I protein promotes cholesterol efflux from tissues to the liver for excretion. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA-I was also isolated as a prostacyclin (PGI2) stabilizing factor, and thus may have an anticlotting effect.³ Defects in the gene encoding it are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis.Additionally, ApoA-I overexpression promotes macrophage-specific reverse cholesterol transport.⁴

REFERENCE

- 1. Ma J, Liao XL, Lou B, Wu MP (2004). "Role of apolipoprotein A-I in protecting against endotoxin toxicity". *Acta Biochim. Biophys. Sin. (Shanghai)* 36 (6): 419–24.
- 2. Brewer, H. B., Jr.; Fairwell, T.; LaRue, A.; Ronan, R.; Houser, A.; Bronzert, T. J.: The amino acid sequence of human apoA-I, an apolipoprotein isolated from high density lipoproteins. *Biochem. Biophys. Res. Commun.* 80: 623-630, 1978.
- 3. Yui Y, Aoyama T, Morishita H, Takahashi M, Takatsu Y, Kawai C (1988). "Serum prostacyclin stabilizing factor is identical to apolipoprotein A-I (Apo A-I). A novel function of Apo A-I". *J. Clin. Invest.* 82 (3): 803–7.
- 4. Zhang, Y.; Zanotti, I.; Reilly, M. P.; Glick, J. M.; Rothblat, G. H.; Rader, D. J.: Overexpression of apolipoprotein A-I promotes reverse transport of cholesterol from macrophages to feces in vivo. *Circulation* 108: 661-663, 2003.