

Rabbit Apolipoprotein A I Polyclonal Antibody | anti-APOA1 antibody

Anti-Apolipoprotein A I Antibody

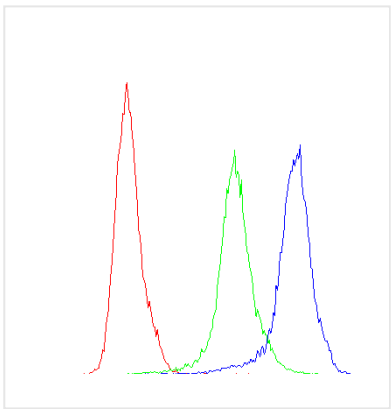
CATALOG # AAA46595	HOST Rabbit	REACTIVITY Human No cross reactivity with other proteins.	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

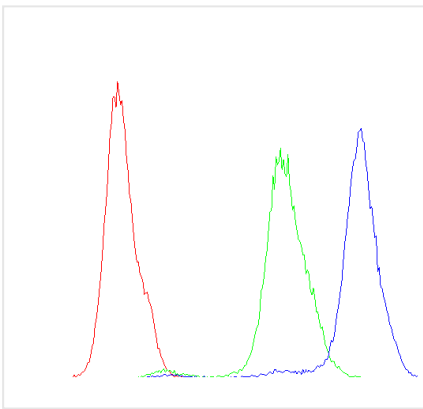
Apolipoprotein A I; Polyclonal Antibody; Anti-Apolipoprotein A I Antibody; Apo AI; APOA 1; ApoA I; APOA1; ApoA-I; Apo-AI; Apolipoprotein A1; Apolipoprotein AI; Apolipoprotein A-I; Apolipoprotein A-I(1-242); ProapoA-I; Proapolipoprotein A-I; Truncated apolipoprotein A-I; P02647 ; apolipoprotein A-I; anti-APOA1 antibody

PRODUCT SPECIFICATIONS

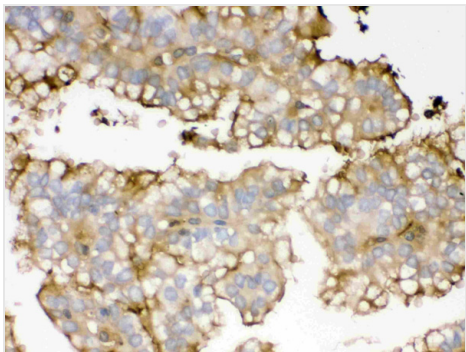
Host	Rabbit
Reactivity	Human No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	267
Applicable Applications for anti-APOA1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Apolipoprotein A I recombinant protein (Position: D25-Q267). Human Apolipoprotein A I shares 64% and 61.7% amino acid (aa) sequence identity with mouse and rat Apolipoprotein A I, respectively.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



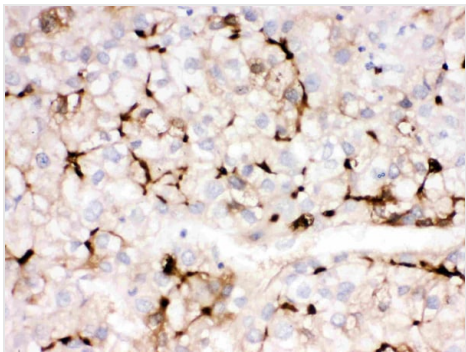
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of HepG2 cells using anti-APOA1 antibody (AAA46595).Overlay histogram showing HepG2 cells stained with AAA46595 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-APOA1 Antibody (AAA46595,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



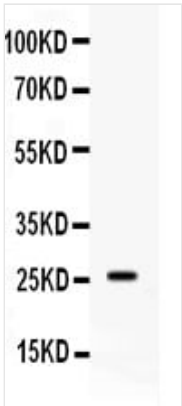
FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of CACO-2 cells using anti-APOA1 antibody (AAA46595).Overlay histogram showing CACO-2 cells stained with AAA46595 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-APOA1 Antibody (AAA46595,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)
APOA1 was detected in paraffin-embedded sections of human renal cancer tissues using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemistry)
APOA1 was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of APOA1 expression in human placenta extract (lane 1). APOA1 at 26KD was detected using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-APOA1 antibody	Rabbit IgG polyclonal antibody for Apolipoprotein A-I (APOA1) detection. 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. The gene is mapped to 11q23. And it is a single polypeptide chain with 243 amino acid residues of known primary amino acid sequence. 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 is also isolated as a prostacyclin (PGI₂) stabilizing factor, and thus may have an anticlotting effect. 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.
References	1. 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. <i>Biochem. Biophys. Res. Commun.</i> 80: 623-630, 1978. 2. Ma J, Liao XL, Lou B, Wu MP (2004). "Role of apolipoprotein A-I in protecting against endotoxin toxicity". <i>Acta Biochim. Biophys. Sin. (Shanghai)</i> 36 (6): 419-24. 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". <i>J. Clin. Invest.</i> 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. <i>Circulation</i> 108: 661-663, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557321
NCBI GeneID	335
NCBI Accession #	NP_000030.1
NCBI GenBank Nucleotide #	NM_000039.2
UniProt Accession #	P02647 ; Q6LDN9 ; Q6Q785 ; Q9UCS8 ; Q9UCT8 ; A8K866
Molecular Weight	30,778 Da
NCBI Official Full Name	apolipoprotein A-I isoform 1 preproprotein
NCBI Official Synonym Full Names	apolipoprotein A1
NCBI Official Symbol	APOA1
NCBI Official Synonym Symbols	apo(a)
NCBI Protein Information	apolipoprotein A-I
UniProt Protein Name	Apolipoprotein A-I
UniProt Gene Name	APOA1
UniProt Synonym Gene Names	Apo-AI; ApoA-I; ProapoA-I
UniProt Entry Name	APOA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/apolipoprotein-a-i-antibody-immunohistochemistry-western-blot-elisa/46595>