

Anti-APOA1 Antibody

Catalog # ABO12531

Product Information

Application	WB, IHC-P
Primary Accession	P04639
Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Apolipoprotein A-I(APOA1) detection. Tested with WB, IHC-P in Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	25081
Other Names	Apolipoprotein A-I, Apo-AI, ApoA-I, Apolipoprotein A1, Proapolipoprotein A-I, ProapoA-I, APOA1
Calculated MW	30062
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Rat
Subcellular Localization	Secreted.
Tissue Specificity	Major protein of plasma HDL, also found in chylomicrons.
Source	Eukaryota
Protein Name	Apolipoprotein A-I
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived rat APOA1 recombinant protein (Position: D25-A259). Rat APOA1 shares 61.7% and 68.6% amino acid (aa) sequence identity with human and mouse APOA1, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	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 a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	Apoa1
Function	Participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin cholesterol acyltransferase (LCAT). As part of the SPAP complex, activates spermatozoa motility.
Cellular Location	Secreted.
Tissue Location	Major protein of plasma HDL, also found in chylomicrons

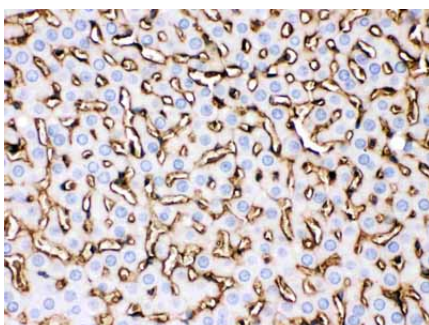
Background

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.

Images

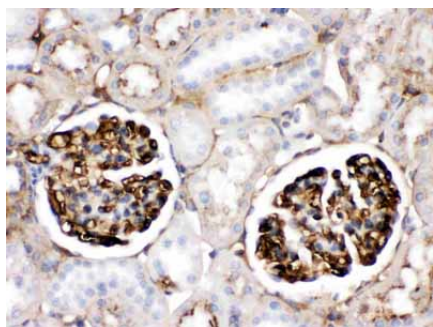


Western blot analysis of APOA1 expression in rat liver extract (lane 1) and rat testis extract (lane 2). APOA1 at 24KD was detected using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody(Catalog # ABO12531) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



APOA1 was detected in paraffin-embedded sections of rat liver tissues using rabbit anti- APOA1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12531) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

APOA1 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- APOA1 Antigen Affinity



purified polyclonal antibody (Catalog # ABO12531) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

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