

Apolipoprotein A V Rabbit pAb

Apolipoprotein A V Rabbit pAb Catalog # AP58266

Product Information

Application IHC-P, IHC-F, IF

Primary Accession Q6Q788

Reactivity Human, Dog, Horse

Host Rabbit
Clonality Polyclonal
Calculated MW 41213
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human APOA5

Epitope Specificity 201-300/366

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted.

SIMILARITY Belongs to the apolipoprotein A1/A4/E family.

SUBUNIT Interacts with GPIHBP1.

Post-translational modifications

Phosphorylation sites are present in the extracellular medium.

DISEASE Defects in APOA5 are a cause of hyperlipoproteinemia type 5 (HLPP5)

[MIM:144650]. HLPP5 is characterized by increased amounts of chylomicrons and very low density lipoprotein (VLDL) and decreased low density lipoprotein (LDL) and high density lipoprotein (HDL) in the plasma after a fast. Numerous conditions cause this phenotype, including insulin-dependent diabetes mellitus, contraceptive steroids, alcohol abuse, and glycogen storage disease

type 1A (GSD1A) [MIM:232200].

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions The protein encoded by this gene is an apolipoprotein that plays an important

role in regulating the plasma triglyceride levels, a major risk factor for coronary artery disease. It is a component of high density lipoprotein and is highly similar to a rat protein that is upregulated in response to liver injury. Mutations in this gene have been associated with hypertriglyceridemia and

hyperlipoproteinemia type 5. This gene is located proximal to the

apolipoprotein gene cluster on chromosome 11q23. Alternatively spliced transcript variants encoding the same protein have been identified. [provided

by RefSeq, Oct 2009].

Additional Information

Gene ID 116519

Other Names Apolipoprotein A-V, Apo-AV, ApoA-V, Apolipoprotein A5,

Regeneration-associated protein 3, APOA5, RAP3

Target/Specificity Liver and plasma.

Dilution IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name APOA5

Synonyms RAP3

Function Minor apolipoprotein mainly associated with HDL and to a lesser extent with

VLDL. May also be associated with chylomicrons. Important determinant of plasma triglyceride (TG) levels by both being a potent stimulator of apo-CII lipoprotein lipase (LPL) TG hydrolysis and an inhibitor of the hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate) (By similarity). Activates poorly lecithin:cholesterol acyltransferase (LCAT) and does not enhance efflux of cholesterol from macrophages. Binds heparin

(PubMed: 17326667).

Cellular Location Secreted. Early endosome. Late endosome. Golgi apparatus, trans-Golgi

network. Note=In the presence of SORL1, internalized to early endosomes, sorted in a retrograde fashion to late endosomes, from which a portion is sent to lysosomes and degradation, another portion is sorted to the

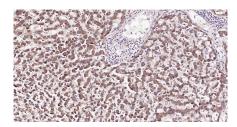
trans-Golgi network

Tissue Location Liver and plasma.

Background

The protein encoded by this gene is an apolipoprotein that plays an important role in regulating the plasma triglyceride levels, a major risk factor for coronary artery disease. It is a component of high density lipoprotein and is highly similar to a rat protein that is upregulated in response to liver injury. Mutations in this gene have been associated with hypertriglyceridemia and hyperlipoproteinemia type 5. This gene is located proximal to the apolipoprotein gene cluster on chromosome 11q23. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Oct 2009].

Images



Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Apolipoprotein A V Polyclonal Antibody, Unconjugated (AP58266) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

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