

# Apolipoprotein A V Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58266

### **Specification**

### Apolipoprotein A V Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession
Reactivity
Rat, Dog
Host
Clonality
Calculated MW
Physical State

Q60788
Rat, Dog
Rabbit
Polyclonal
S9 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human APOA5

Epitope Specificity 201-300/366

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

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].

# Apolipoprotein A V Polyclonal Antibody - 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**

```
<span class ="dilution IHC-P">IHC-P~~N/A</span><br \><span class</pre>
="dilution IHC-F">IHC-F~~N/A</span><br \><span class
="dilution IF">IF~~1:50~200</span><br/>span class = "dilution E">E~~N/A</span>
```

### 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.

## Apolipoprotein A V Polyclonal Antibody - 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: <a

href="http://www.uniprot.org/citations/17326667" target=" blank">17326667</a>).

### **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

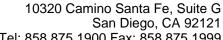
## **Tissue Location**

Liver and plasma.

### Apolipoprotein A V Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

Western Blot

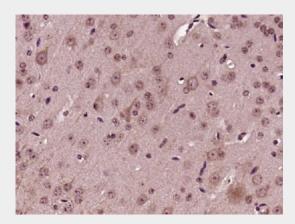


Tel: 858.875.1900 Fax: 858.875.1999



- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# Apolipoprotein A V Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Apolipoprotein A V) Polyclonal Antibody, Unconjugated (bs-5035R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.