

Product datasheet for **TA336521**

Apolipoprotein A V (APOA5) Mouse Monoclonal Antibody [Clone ID: 1G5G9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1G5G9
Applications:	CyTOF-ready, ELISA, FC, IF, IHC, WB
Recommended Dilution:	Western Blot: 0.5 ug/ml, Immunohistochemistry-Paraffin: 5 ug/ml, Flow Cytometry: 1 ug per million cells, ELISA: 1:100-1:2000, Immunohistochemistry: 5 ug/ml, ICC/IF (Negative), CyTOF-ready
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Ni-NTA purified full-length recombinant human Apolipoprotein A5 expressed in E. Coli strain BL21 (DE3). [UniProt# Q6Q788]
Formulation:	PBS, pH 7.4, 0.1% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	41 kDa
Gene Name:	apolipoprotein A5
Database Link:	NP_443200 Entrez Gene 116519 Human Q6Q788



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Background:

Apolipoprotein A-V (APOA5) belongs to apolipoprotein A1/A4/E family and is a component of several lipoprotein fractions, including VLDL, HDL and chylomicrons. Expressed at high levels in plasma and liver, APOA5 exists as a secreted protein and interacts with GPIHBP1. APOA5 is an important determinant of plasma triglyceride levels by both behaving as a potent stimulator of apo-CII lipoprotein lipase/LPL TG hydrolysis and an inhibitor of hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate). APOA5 activates lecithin: cholesterol acyltransferase (LCAT) but does not enhance efflux of cholesterol from macrophages. Transgenic mice overexpressing human APOA5 gene exhibit one-third lower plasma TG levels than wild type, whereas APOA5 knockout mice possess four times as much plasma TG levels, with no effect on plasma cholesterol levels. Clinically, defects in APOA5 are a cause of susceptibility to familial hypertriglyceridemia (FHTR) and hyperlipoproteinemia type 5 (HLPP5).

Synonyms:

APOAV; RAP3

Note:

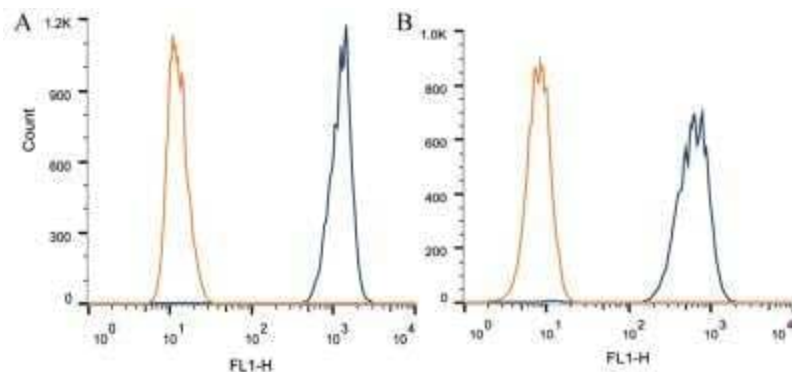
This Apolipoprotein A5 antibody is useful in ELISA, Immunohistochemistry paraffin embedded sections and Western blot.

Protein Families:

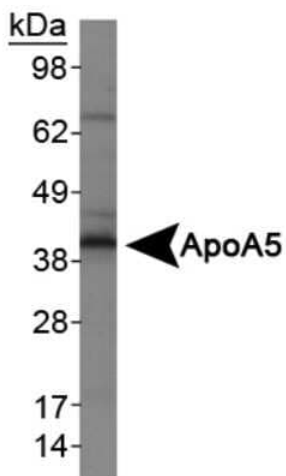
Druggable Genome, Secreted Protein

Protein Pathways:

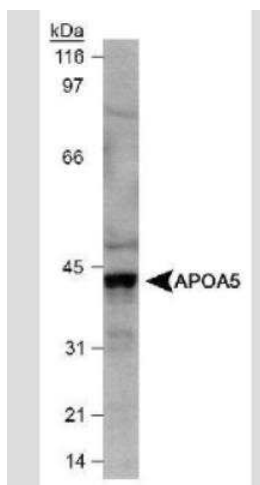
PPAR signaling pathway

Product images:

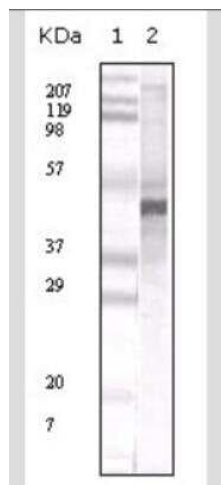
Flow Cytometry: Apolipoprotein A5 Antibody (1G5G9) TA336521 - Intracellular flow cytometric staining of 1×10^6 CHO (A) and HEK-293 (B) cells using Apolipoprotein A5 antibody (dark blue). Isotype control shown in orange. An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



Western Blot: Apolipoprotein A5 Antibody (1G5G9) TA336521 - Analysis of ApoA5 in HepG2 lysates



Western Blot: Apolipoprotein A5 Antibody (1G5G9) TA336521 - Detection of Apo A5 in HepG2 cell lysate.



Western Blot: Apolipoprotein A5 Antibody (1G5G9) TA336521 - Analysis in human serum total protein (lane 2). Lane 1 is a MW standard.