

Product datasheet for **TA301561**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	1G5G9
Applications:	ELISA, FC, ICC/IF, IHC, WB
Recommended Dilution:	ELISA: 1:100-1:2000, Western Blot: 1:500-1:2000, Immunocytochemistry/ Immunofluorescence: 1:200-1:1000, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Ni-NTA purified full-length recombinant human APOA5 expressed in E. Coli strain BL21 (DE3).
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	apolipoprotein A5
Database Link:	NP_443200 Entrez Gene 116519 Human Q6Q788

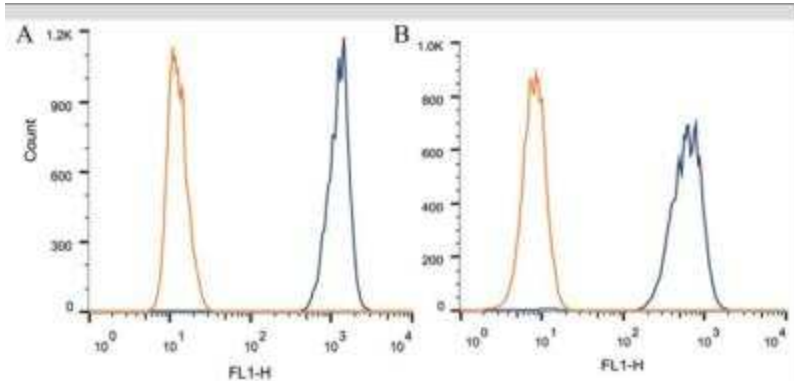
Background: Apolipoprotein A5 (ApoA5) is fast gaining attention as a key regulator of serum triglyceride concentrations. An ApoA5 mouse knock-out model produced an approximately four-fold increase in serum triglycerides, whereas a knock-in model with human ApoA5 produced 50-70% lower concentrations of mouse serum triglycerides. In addition, peroxisome proliferator-activated receptor-4 (PPAR-alpha) agonists, which are used clinically to lower serum triglyceride concentrations, cause increased ApoA5 mRNA expression. Recently, it was demonstrated that ApoA5 is present in human serum detected by polyclonal antibodies against both the NH2 and COOH termini, although at much lower concentrations than other apolipoproteins.



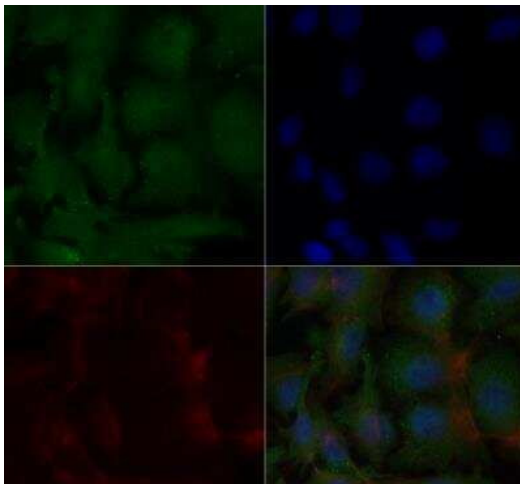
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Synonyms: APOAV; RAP3
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: PPAR signaling pathway

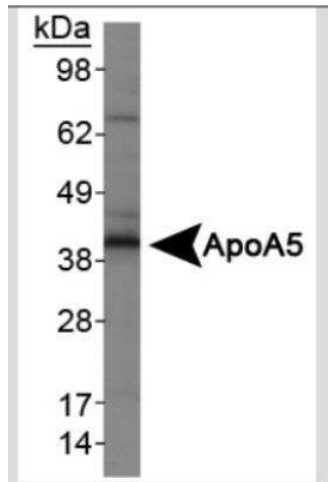
Product images:



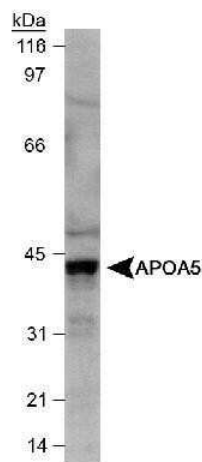
Flow Cytometry: Apolipoprotein A5 Antibody (1G5G9) TA301561 - Intracellular flow cytometric staining of 1×10^6 CHO (A) and HEK-293 (B) cells using Apolipoprotein A5 antibody (dark blue). Isotype control shown in orange. An antibody concentration of $1 \mu\text{g}/1 \times 10^6$ cells was used.



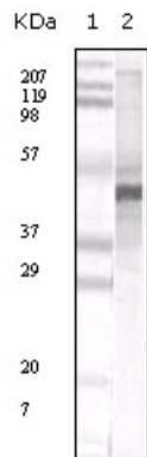
Immunocytochemistry/Immunofluorescence: Apolipoprotein A5 Antibody (1G5G9) TA301561 - HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using $1 \times$ TBS + 0.5% Triton-X100. The cells were incubated with anti-Apolipoprotein A5 (1G5G9) at a 1:200 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: Apolipoprotein A5 Antibody (1G5G9) TA301561 - Analysis of ApoA5 in HepG2 lysates.



Western Blot: Apolipoprotein A5 Antibody (1G5G9) TA301561 - Detection of Apo A5 in HepG2 cell lysate with TA301561.



Western Blot: Apolipoprotein A5 Antibody (1G5G9) TA301561 - Analysis using anti- human APOA5 monoclonal antibody against human serum total protein (lane 2). Lane 1 is a MW standard.