

Rabbit anti-Human, Rat Apolipoprotein A V/APOA5 Polyclonal Antibody | anti-APOA5 antibody

Anti-Apolipoprotein A V/APOA5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125598	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

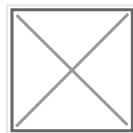
PRODUCT SYNONYMS

Apolipoprotein A V/APOA5; Polyclonal Antibody; Anti-Apolipoprotein A V/APOA5 Antibody; APOA5; RAP3; UNQ411/PRO773; Apolipoprotein A-V; Apo-AV; ApoA-V; Apolipoprotein A5; Regeneration-associated protein 3; apolipoprotein A5; anti-APOA5 antibody

PRODUCT SPECIFICATIONS

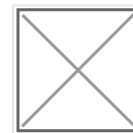
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Apolipoprotein A V/APOA5 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-APOA5 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human Apolipoprotein A V/APOA5 recombinant protein (Position: E99-A217).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of RH35 cells using anti-Apolipoprotein A V/APOA5 antibody (AAA125598). Overlay histogram showing RH35 cells stained with AAA125598 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Apolipoprotein A V/APOA5 Antibody (AAA125598, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-Apolipoprotein A V/APOA5 antibody (AAA125598). Overlay histogram showing HepG2 cells stained with AAA125598 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Apolipoprotein A V/APOA5 Antibody (AAA125598, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Apolipoprotein A V/APOA5 using anti-Apolipoprotein A V/APOA5 antibody (AAA125598). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions. Lane 1: human Caco-2 whole cell lysates. Lane 2: human HepG2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Apolipoprotein A V/APOA5 antigen affinity purified polyclonal antibody (Catalog # AAA125598) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Apolipoprotein A V/APOA5 at approximately 45KD. The expected band size for Apolipoprotein A V/APOA5 is at 45KD.

ADDITIONAL INFORMATION

Related Product Information for anti-APOA5 antibody	Apolipoprotein A-V is a protein that in humans is encoded by the APOA5 gene. 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.
References	1. Caussy, C., Charriere, S., Marcais, C., Di Filippo, M., Sassolas, A., Delay, M., Euthine, V., Jalabert, A., Lefai, E., Rome, S., Moulin, P. An APOA5 3-prime UTR variant associated with plasma triglycerides triggers APOA5 downregulation by creating a functional miR-485-5p binding site. <i>Am. J. Hum. Genet.</i> 94: 129-134, 2014. 2. Do, R., Stitzel, N. O., Won, H. -H., Berg Jorgensen, A., Duga, S., Merlini, P. A., Kiezun, A., Farrall, M., Goel, A., Zuk, O., Guella, I., Asselta, R., and 82 others. Exome sequencing identifies rare LDLR and APOA5 alleles conferring risk for myocardial infarction. <i>Nature</i> 518: 102-106, 2015. 3. Endo, K., Yanagi, H., Araki, J., Hirano, C., Yamakawa-Kobayashi, K., Tomura, S. Association found between the promoter region polymorphism in the apolipoprotein A-V gene and the serum triglyceride level in Japanese schoolchildren. <i>Hum. Genet.</i> 111: 570-572, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	262231737
NCBI GeneID	116519
NCBI Accession #	NP_001160070.1
NCBI GenBank Nucleotide #	NM_001166598.1
UniProt Accession #	Q6Q788 ; Q3MIK6 ; Q6UWK9 ; Q9UBJ3 ; B0YIV9
Molecular Weight	41,213 Da
NCBI Official Full Name	apolipoprotein A-V
NCBI Official Synonym Full Names	apolipoprotein A-V
NCBI Official Symbol	APOA5
NCBI Official Synonym Symbols	RAP3; APOAV
NCBI Protein Information	apolipoprotein A-V; apo-AV; apolipoprotein A5; regeneration-associated protein 3
UniProt Protein Name	Apolipoprotein A-V
UniProt Gene Name	APOA5

UniProt Synonym Gene Names	RAP3; Apo-AV; ApoA-V
UniProt Entry Name	APOA5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/apolipoprotein-a-v-apoa5-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125598>