

Datasheet for 600-101-197**APOLIPOPROTEIN E Antibody****Overview**

Description:	Anti-Apolipoprotein E (GOAT) Antibody - 600-101-197
Item No.:	600-101-197
Size:	500 µg
Applications:	WB, Other
Reactivity:	Human, Rat
Host Species:	Goat

Product Details

Background:	Anti Apolipoprotein E Antibody recognizes the gene product of APOE. Apolipoprotein E is found in the chylomicron and IDLs that binds to a specific receptor on liver cells and peripheral cells. Apolipoprotein E is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. This antibody is suitable for cardiovascular research.
Synonyms:	goat anti-Apolipoprotein E3 antibody, Alzheimer disease 2 antibody, Apo-E antibody, Apo E antibody, ApoE antibody, APOEA antibody, Apolipoprotein-E antibody, Apoprotein antibody
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	APOE
Reactivity:	Human, Rat
Immunogen Type:	Native Protein
Immunogen:	Apolipoprotein Type E was isolated from human plasma by density gradient centrifugation followed by HPLC purification.

Purity/Specificity: Anti-Apolipoprotein E has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other apoLipoproteins and human serum proteins to remove any unwanted specificities. Typically less than 1% cross-reactivity against other types of apoLipoprotein was detected by ELISA against purified standards. This antibody reacts with human apoLipoprotein E and has negligible cross-reactivity with Type A-1 A-II, B, C-I, C-II, C-III and J apoLipoproteins. Specific cross-reaction of anti-apoLipoprotein antibodies with antigens from other species has not been determined. Non-specific cross-reaction of anti-apoLipoprotein antibodies with other human serum proteins is negligible.

Relevant Links:

- [600-101-197 SDS](#)
- [UniProtKB - P02649](#)
- [NCBI - NP_000032](#)
- [GenelD - 348](#)

Application Details

Tested Applications:	WB
Suggested Applications:	Other (Based on references)
Application Note:	Apolipoprotein E antibodies have been tested by western blot and used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for western blotting for highly sensitive qualitative analysis.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:4,000 - 1:8,000
IHC:	1:50 - 1:200
IP:	1:100
WB:	1:500 - 1:2,000

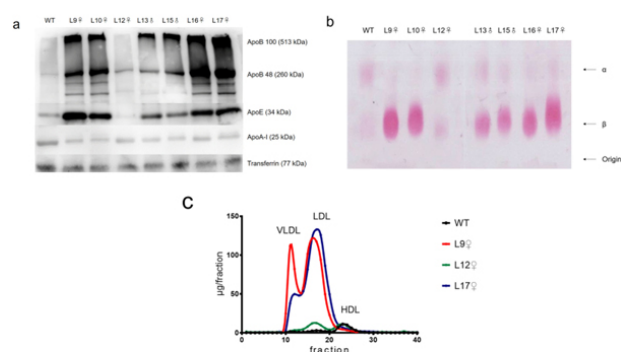
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

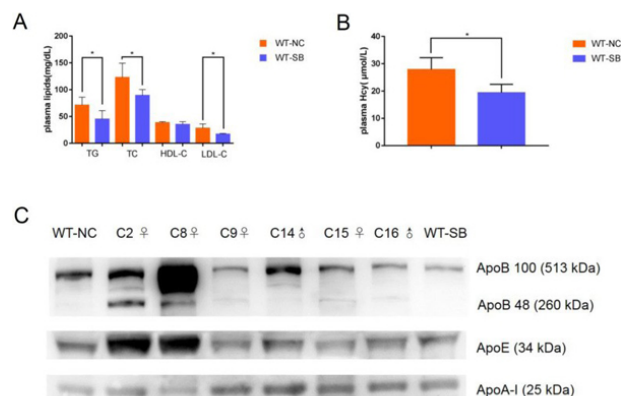
Analysis of plasma TC, TG, LDL-C, and HDL-C in the LDLR-KO rabbits.

A: Analysis of plasma apolipoproteins by Western blot. Plasma samples (0.5 μ L) were fractionated on 4–15% SDS-PAGE and transferred to a PVDF membrane probed with Abs anti ApoA-I, ApoB, and ApoE as described in the Materials and Methods section.

B: Agarose gel electrophoresis of plasma lipoproteins. 4 μ L of plasma was loaded in each well, fractionated on 1% agarose gel, and stained with fat red 7 B for neutral lipids. Lipoprotein migration positions are indicated by arrows.

C: Analysis of plasma lipoprotein profiles by fast-protein liquid chromatography (FPLC). Black, red, green, and blue lines showed the fractions of WT, L9, L12, and L17 respectively; VLDL, very low-density lipoprotein; LDL, low-density lipoprotein; HDL, high-density lipoprotein.

Fig 3. PMID: 30243490

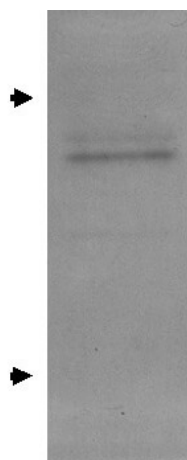


Western Blot

CBS-KO rabbits are hyperlipidemic. a Plasma TG, TC, HDL-C, LDL-C and b Hcy levels in 6 weeks-old WT rabbits (n = 6). Mean ± SD, *P < 0.05. c Immunoblot showing levels of plasma apolipoproteins in the indicated groups. WT-NC: wild type rabbits fed normal chow. WT-SB: wild type rabbits fed normal chow supplemented with the vitamin B and betaine complex. C2, C8: CBS-KO rabbits on a normal chow diet. C9, C14, C15, C16: CBS-KO rabbits fed normal chow supplemented with the vitamin B and betaine complex. Fig 3. PMID: 33054837

Western Blot

Western Blot of goat Anti Apolipoprotein E Antibody. Lane 1: rat glial whole cell lysate. Load: 40 μg per lane. Primary antibody: Apolipoprotein E antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP goat secondary antibody at 1:200 for 45 min at RT. Block: 3%BLOTTO overnight at 4°C. Predicted/Observed size: 36 kDa, 35-36 kDa for APO-E. MW markers arrows at 25kDa and 37kDa. Other band(s): ~55kDa.



References

- Zhang T et al. Hyperhomocysteinemia and Dyslipidemia in point mutation G307S of cystathionine β-synthase-deficient rabbit generated using CRISPR/Cas9. *Lipids Health Dis.* (2020)
- Lu et al. Spontaneous severe hypercholesterolemia and atherosclerosis lesions in rabbits with deficiency of low-density lipoprotein receptor (LDLR) on exon 7. *EBioMedicine* (2018)
- Berard AR et al. Quantification of the host response proteome after herpes simplex virus type 1 infection. *J Proteome Res.* (2015)
- Berard AR et al. Comparative proteomic analyses of two reovirus T3D subtypes and comparison to T1L identifies multiple novel proteins in key cellular pathogenic pathways. *Proteomics.* (2015)

Disclaimer

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