

ARG40568 anti-Apolipoprotein E antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Apolipoprotein E
Tested Reactivity	Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Apolipoprotein E
Species	Mouse
Immunogen	Recombinant protein corresponding to D55-Q294 of Mouse Apolipoprotein E.
Conjugation	Un-conjugated
Alternate Names	Apolipoprotein E; Apo-E; APO-E; LPG; AD2; LDLCQ5

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml

Application Note IHC-P: Antigen Retrieval: By heat mediation.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

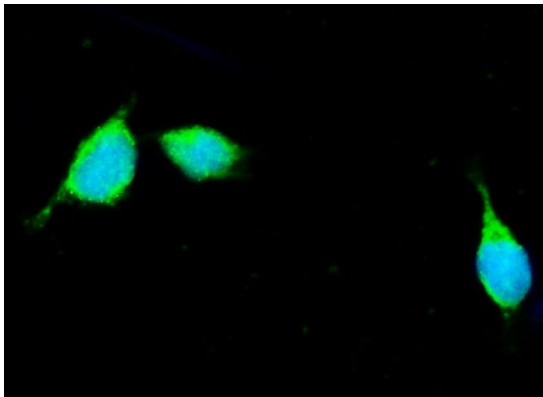
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

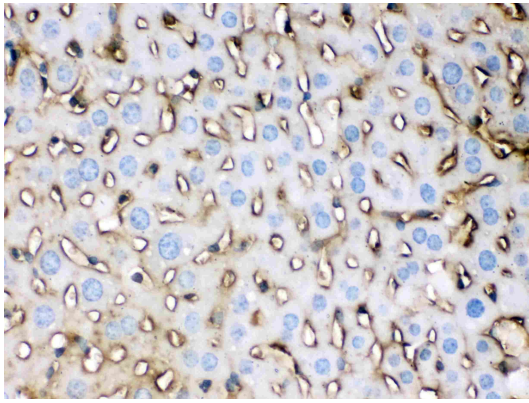
Gene Symbol	APOE
Gene Full Name	apolipoprotein E
Background	The protein encoded by this gene is a major apoprotein of the chylomicron. It binds to a specific liver and peripheral cell receptor, and is essential for the normal catabolism of triglyceride-rich lipoprotein constituents. This gene maps to chromosome 19 in a cluster with the related apolipoprotein C1 and C2 genes. Mutations in this gene result in familial dysbetalipoproteinemia, or type III hyperlipoproteinemia (HLP III), in which increased plasma cholesterol and triglycerides are the consequence of impaired clearance of chylomicron and VLDL remnants. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]
Function	Mediates the binding, internalization, and catabolism of lipoprotein particles. It can serve as a ligand for the LDL (apo B/E) receptor and for the specific apo-E receptor (chylomicron remnant) of hepatic tissues. [UniProt]
Calculated Mw	36 kDa
PTM	Synthesized with the sialic acid attached by O-glycosidic linkage and is subsequently desialylated in plasma. O-glycosylated with core 1 or possibly core 8 glycans. Thr-307 and Ser-314 are minor glycosylation sites compared to Ser-308. Glycated in plasma VLDL of normal subjects, and of hyperglycemic diabetic patients at a higher level (2-3 fold). Phosphorylated by FAM20C in the extracellular medium. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG40568 anti-Apolipoprotein E antibody ICC/IF image

Immunofluorescence: HEPA 1-6 cells were blocked with 10% goat serum and then stained with ARG40568 anti-Apolipoprotein E antibody (green) at 5 $\mu\text{g}/\text{ml}$ dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



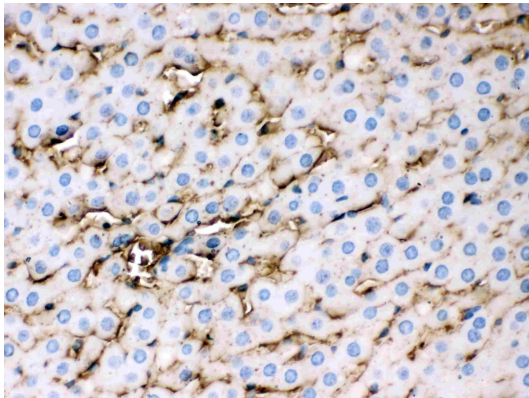
ARG40568 anti-Apolipoprotein E antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse liver tissue stained with ARG40568 anti-Apolipoprotein E antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



ARG40568 anti-Apolipoprotein E antibody WB image

Western blot: Mouse spleen and Mouse kidney lysates stained with ARG40568 anti-Apolipoprotein E antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG40568 anti-Apolipoprotein E antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat liver tissue stained with ARG40568 anti-Apolipoprotein E antibody at 1 $\mu\text{g}/\text{ml}$ dilution.