

## ARG40587 anti-Apolipoprotein E antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Apolipoprotein E |
| Tested Reactivity   | Hu, Ms   |
| Tested Application  | ICC/IF, IHC-P, IP, WB                                  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | Apolipoprotein E                                       |
| Species             | Human  |
| Immunogen           | Synthetic peptide derived from Human Apolipoprotein E. |
| Conjugation         | Un-conjugated  |
| Alternate Names     | Apolipoprotein E; Apo-E; APO-E; LPG; AD2; LDLCQ5       |

### Application Instructions

| Application table | Application | Dilution       |
|-------------------|-------------|----------------|
|                   | ICC/IF      | 1:50 - 1:200   |
|                   | IHC-P       | 1:50 - 1:200   |
|                   | IP          | 1:50           |
|                   | WB          | 1:500 - 1:2000 |

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

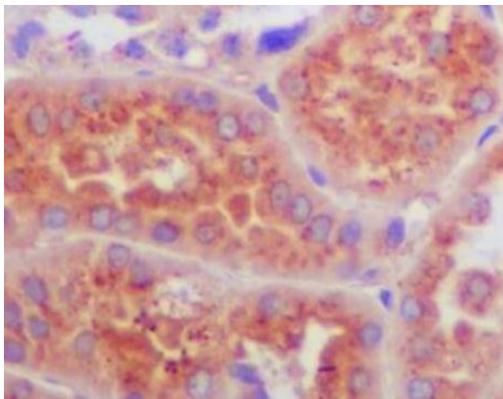
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.   |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| 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. 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.  |

## Bioinformatics

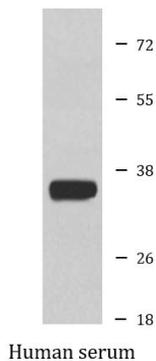
|                       |  |
|-----------------------|--|
| Gene Symbol           | APOE   |
| Gene Full Name        | apolipoprotein E   |
| Background            | The protein encoded by this gene is a major apoprotein of the chylomicron. It binds to a specific liver and peripheral cell receptor, and 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.<br><br>Glycated in plasma VLDL of normal subjects, and of hyperglycemic diabetic patients at a higher level (2-3 fold).<br><br>Phosphorylated by FAM20C in the extracellular medium. [UniProt]   |
| Cellular Localization | Secreted. [UniProt]  |

## Images



ARG40587 anti-Apolipoprotein E antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney stained with ARG40587 anti-Apolipoprotein E antibody.



ARG40587 anti-Apolipoprotein E antibody WB image

Western blot: Human serum lysate stained with ARG40587 anti-Apolipoprotein E antibody.