

## Human ApoE Antibody Pair Set

**Catalog No.** E-KAB-0191  
**Synonyms** Apo-E, MGC1571

**Applications** ELISA

### Kit components & Storage

| Title                                  | Specifications | Storage                                                    |
|----------------------------------------|----------------|------------------------------------------------------------|
| Human ApoE Capture Antibody            | 1 vial, 100 µg | Store at -20℃ for one year.<br>Avoid freeze / thaw cycles. |
| Human ApoE Detection Antibody (Biotin) | 1 vial, 50 µL  | Store at -20℃ for one year.<br>Avoid freeze / thaw cycles. |

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

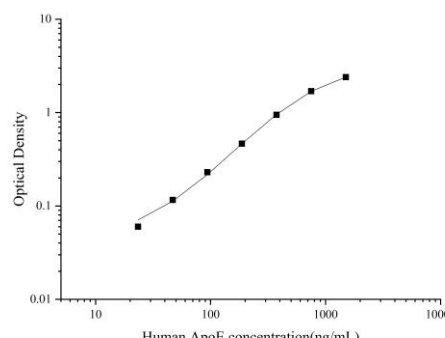
### Product Information

| Items                 |               | Characteristic (E-KAB-0191)                      |                                                                         |
|-----------------------|---------------|--------------------------------------------------|-------------------------------------------------------------------------|
|                       |               | Human ApoE Capture Antibody                      | Human ApoE Detection Antibody (Biotin)                                  |
| Immunogen Information | Immunogen     | Native Protein                                   | Native Protein                                                          |
|                       | Swissprot     | P02649                                           |                                                                         |
| Product details       | Reactivity    | Human                                            | Human                                                                   |
|                       | Host          | Mouse                                            | Mouse                                                                   |
|                       | Conjugation   | Unconjugated                                     | Biotin                                                                  |
|                       | Concentration | 0.5mg/mL                                         | /                                                                       |
|                       | Buffer        | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
|                       | Purify        | Protein A                                        | Protein A                                                               |
|                       | Specificity   | Detects Human ApoE in ELISAs.                    |                                                                         |

### For Research Use Only

## Applications

### Human ApoE Sandwich ELISA Assay:

|                                  | Recommended Concentration/Dilution | Reagent                                | Images                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
|----------------------------------|------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------|----|------|----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|
| ELISA Capture                    | 0.5-4μg/mL                         | Human ApoE Capture Antibody            |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human ApoE concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>20</td><td>0.05</td></tr><tr><td>50</td><td>0.1</td></tr><tr><td>100</td><td>0.2</td></tr><tr><td>200</td><td>0.4</td></tr><tr><td>500</td><td>0.8</td></tr><tr><td>1000</td><td>1.5</td></tr><tr><td>2000</td><td>2.5</td></tr></tbody></table> | Human ApoE concentration (ng/mL) | Optical Density | 20 | 0.05 | 50 | 0.1 | 100 | 0.2 | 200 | 0.4 | 500 | 0.8 | 1000 | 1.5 | 2000 | 2.5 |
| Human ApoE concentration (ng/mL) | Optical Density                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 20                               | 0.05                               |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 50                               | 0.1                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 100                              | 0.2                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 200                              | 0.4                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 500                              | 0.8                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 1000                             | 1.5                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| 2000                             | 2.5                                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |
| ELISA Detection                  | 1:1000-1:10000                     | Human ApoE Detection Antibody (Biotin) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                 |    |      |    |     |     |     |     |     |     |     |      |     |      |     |

**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## 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.