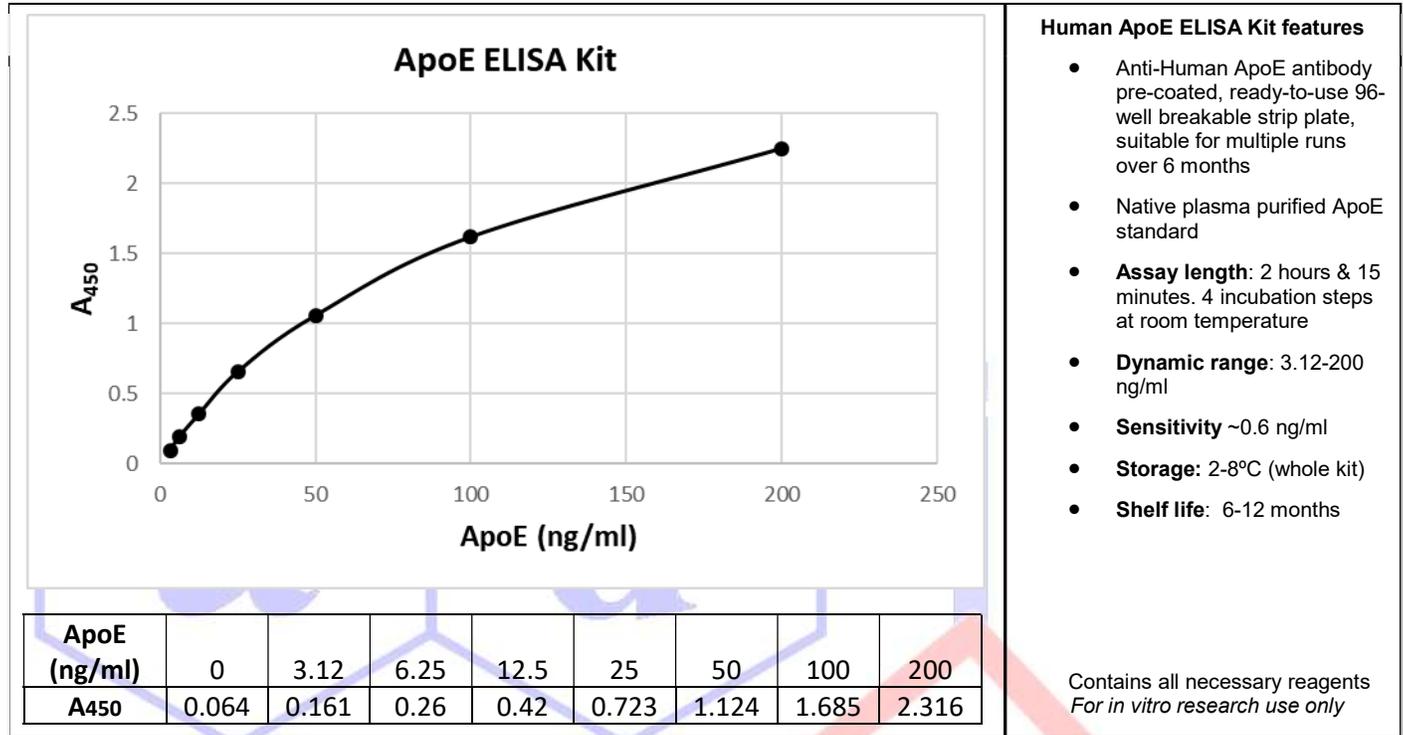


Human ApoE ELISA Kit Cat# APOE-096

The Human ApoE ELISA Kit is a highly sensitive sandwich ELISA for the measurement of Human ApoE in serum, plasma, culture supernatants, cerebrospinal fluid, and other appropriately qualified matrices



Human ApoE ELISA Kit features

- Anti-Human ApoE antibody pre-coated, ready-to-use 96-well breakable strip plate, suitable for multiple runs over 6 months
- Native plasma purified ApoE standard
- **Assay length:** 2 hours & 15 minutes. 4 incubation steps at room temperature
- **Dynamic range:** 3.12-200 ng/ml
- **Sensitivity** ~0.6 ng/ml
- **Storage:** 2-8°C (whole kit)
- **Shelf life:** 6-12 months

Contains all necessary reagents
For in vitro research use only

Assay Procedure: Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipette 100 ul of appropriately diluted samples and calibrators into wells and incubate for 1 hour at room temperature.
- Step 2.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 3.** Add 100 ul of HRP conjugated detection antibody to each well and incubate for 1 hour at room temperature
- Step 4.** Wash the wells 3X with 300 ul of wash buffer for each well
- Step 5.** Add 100 ul of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes.
- Step 6.** Pipette 100 ul of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

Performance Characteristics

Sensitivity: ~600 pg/ml
Average recovery: 100 ±15%
Average linearity: 100 ±15%
Precision: Intra-assay: <10% Inter-assay: <10%

Minimum recommended dilution
Serum, Plasma, and CSF: 10-fold
Culture supernatant: 2-fold

Note: Minimum recommended dilution represents the dilution which is needed to eliminate matrix interference effects. All samples must be diluted to at least the minimum recommended ratio. Samples may be further diluted if the sample values fall within the standard curve, if sample volume is to be preserved, or if the sample value is above the highest OD on the standard curve

General Information

Apolipoprotein E (ApoE) is a protein involved in the metabolism of fats in the body. It is used as a marker for Alzheimer's disease as well as cardiovascular disease. ApoE is primarily produced by the liver and macrophages, in the CNS, it is primarily produced by astrocytes. ApoE is the principal cholesterol carrier in the brain. ApoE has 3 isoforms, the third isoform (ApoE4) is a known genetic risk factor for late-onset Alzheimer's disease. Alzheimer's disease is characterized by builds of aggregates of beta-amyloid 42. ApoE enhances the proteolytic break-down of the beta-amyloid 42 peptide.