

Human Amyloid Beta 42 ELISA Kit | Abeta42 elisa kit

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CATALOG #
AAA17440

REACTIVITY
Human

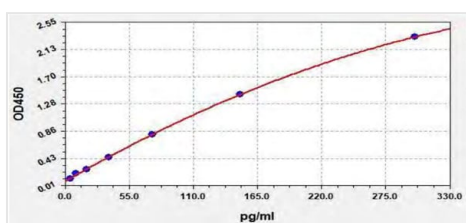
PRODUCT SYNONYMS

Amyloid Beta 42; Human Amyloid Beta 42 ELISA Kit; Ab42 (Amyloid Beta 42)/Ab (1-42)/Ab1-42 ; Abeta42 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize Abeta42, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	4.688-300pg/ml
Sensitivity	2.813pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Abeta42 elisa kit	Background: Amyloid beta 42(Abeta42) is a protein fragment that is derived from the protein precursor amyloid precursor protein (APP) and is the primary component of neuronal deposits. In Alzheimer's disease, Abeta42 aggregates into neurofibrillary tangles and neuritic plaques, which are one of the hallmark neuropathological features of the disease. Abeta42 is the longest fragment of Abeta and its formation is regulated by multiple enzymes. Under normal circumstances, Abeta42 exists in relatively low concentrations in the brain, but in Alzheimer's disease patients, its concentration increases significantly. In addition, the aggregation of Abeta42 can lead to neuronal death and inflammation, which is also one of the important causes of neuronal degeneration in Alzheimer's disease. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti Abeta42 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti Abeta42 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with Abeta42 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of Abeta42 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/abeta42-human-elisa-kits/amyloid-beta-42/17440>