

**Amyloid Beta ( 1-40 ) A $\beta$  Anti-Human Rabbit IgG Affinity Purify  
Polyclonal Antibody**

**Cat.NO.: PA01041**

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3th Edition

**Description:** Alzheimer's Disease (AD) is characterized by the presence of extracellular plaques and intracellular neurofibrillary tangles (NFTs) in the brain. The major protein component of these plaques is beta amyloid peptide (A $\beta$ ), a 40 to 43 amino acid peptide cleaved from amyloid precursor protein by  $\beta$ -secretase and a putative  $\gamma$ -secretase. Increased release of the 'longer forms' of A $\beta$  peptide, A $\beta$ 42 or A $\beta$ 43, which have a greater tendency to aggregate than A $\beta$ 40, occurs in individuals expressing certain genetic mutations, expressing certain ApoE alleles, or may involve other, still undiscovered, factors. Many researchers theorize that it is this increased release of A $\beta$ 42/A $\beta$ 43 which leads to the abnormal deposition of A $\beta$  and the associated neurotoxicity in the brains of affected individuals.

**Antigen:** Synthetic peptide for C-terminal of Human Amyloid $\beta$  (1-40) (MVGGVV).

**Form:** Lyophilized product from 1% BSA in PBS containing 0.05% NaN<sub>3</sub>.

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH 7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1:500 g/ml.

**Specificity:** Human Amyloid Beta (1-40) A $\beta$  specific. Not cross-react with human Amyloid Beta A $\beta$  (1-42) or (1-43).