# Data Sheet

**Code No. 18591**

**Anti-Human**

**Amyloidβ (N3pE) Rabbit IgG Affinity Purify**

**Volume** : 50 µg

**Introduction**

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 (Aβ) peptide, a 40 to 43 amino acid peptide cleaved from amyloid precursor protein by β-secretase and γ-secretase. Increased release of Aβ42 or Aβ43, both of which exhibit a greater tendency to aggregate than Aβ40, occurs in individuals expressing certain genetic mutations, ApoE alleles or may involve other undiscovered factors. Many researchers theorize that it is this increased release of Aβ42/Aβ43 which leads to the abnormal deposition of Aβ and the associated neurotoxicity in the brains of affected individuals. It is reported that a distinct Aβ peptide, Aβ (N3pE), is deposited in senile plaques in a dominant and differential manner as compared with the standard Aβ peptide.

**Antigen**

Synthetic peptide of the N terminal part of Aβ (N3pE): Amyloidβ which the 3rd N-terminal residue, glutamate is converted to pyroglutamate.

**Purification**

Purified with antigen peptide

**Form**

Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃

**How to use**

1.0 mL deionized water will be added to the product (the conc. comes up 50 µg /mL)

**Stability**

Lyophilized product, 5 years at 2 - 8 °C

Solution, 2 years at –20 °C

**Application**

This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after formic acid treatment*1 by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is 1 - 2 µg/mL, however, the concentration should be optimized by each laboratory.

*1 Rinsing by running water after formic acid treatment for 5 minutes following de-paraffin.

This antibody can be used for western blotting in concentration of 1 - 5 µg /mL.

**Specificity**

Human Amyloidβ (N3pE) specific.

Not cross-react with Human Amyloidβ (1-40), (1-42) and (1-43).

**Reference**


