**Anti-Human**

**Amyloid β (N) (82E1) Mouse IgG MoAb**

**Volume**: 50 µg  
**Lot No**: 0F-422

**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 peptide (Aβ), a 40 to 43 amino acid peptide cleaved from amyloid precursor protein by beta-secretase and a putative ß-secretase. Increased release of the ‘longer forms’ of Aβ peptide, Aβ42 or Aβ43, which have a greater tendency to aggregate than Aβ40, 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 Aβ42/Aβ 43 which leads to the abnormal deposition of Aβ and the associated neurotoxicity in the brains of affected individuals. This antibody specifically reacts human Aβ N-terminal end, therefore it is very useful to detect APP fragments generated by ß-secretase cleavage.

**Antigen**: Synthetic peptide for Human Amyloid (1-16) (DAEFRHDSGYEVHHQK)

**Source**: Mouse-Mouse hybridoma (supernatant)  
(X63-Ag8.653 ~ BALB/c mouse spleen cells)

**Clone**: 82E1  
**Subclass**: IgG₁

**Purification**: Affinity purified with antigen peptide

**Form**: Lyophilized product from 1% BSA in PBS containing 0.05% NaN₃

**How to use**: 0.5mL distilled water will be added to the product (The conc. comes up 100 µg/mL)

**Dilution**: PBS (pH7.4) containing 1% BSA, 0.05% NaN₃

**Stability**: Lyophilized product, 5 years at 2 – 8 º  
: Solution, 2 years at –20 º

**Application**: This antibody can be stained in formalin fixed paraffin embedded tissues after formic acid treatment¹ by several Immunohistochemical techniques such as Avidin Bition Complex (ABC) Method. The optimal dilution is about 1µg /ml, however, the dilution rate should be optimized by each laboratories.  
*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 about 1µg /mL.  
: This antibody can be used for Immunoprecipitation.

**Specificity**: Human Amyloidβ N-terminal specific.  
Reacts with both soluble and fibrillar Aβ to a similar degree  
Non reacts with non-cleaved APP  
Non cross reacts with mouse and rat.