

DATASHEET

Version: 2016-08-17

β -Amyloid Antibody (1-17), pAb, Rabbit

Cat. No.: A00685-100

Size: 100 μ g

Synonyms: Rabbit Anti beta-Amyloid (1-17) pAb;

Description:

A number of mutations, identified in the gene encoding the β -amyloid precursor protein (β APP), have been linked to early-onset Familial Alzheimers Disease. β APP is cleaved sequentially by the proteolytic enzymes β -secretase and γ -secretase to produce β -amyloid ($A\beta$) peptides with the $A\beta$ 1-42(43) and the $A\beta$ 1-40 forms being the most prevalent. Secreted $A\beta$ peptides can bind to scavenger receptors and the receptor for advanced glycation endproducts. $A\beta$ peptides are degraded either via a reuptake mechanism followed by endosomal degradation or by an extracellular insulin-degrading enzyme. Extracellular accumulation of $A\beta$ leads to formation of aggregates, fibrils, and eventually amyloid deposits called neuritic plaques, a hallmark of Alzheimer's disease. β -amyloid antibodies and peptides have been developed as tools for elucidating the biology of Alzheimers disease.

Immunogen: A synthetic peptide corresponding to amino

acids 1-17 of β -amyloid conjugated to KLH

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: This antibody is specific to human β -amyloid 1-40 and β -amyloid 1-42 peptides.

Purification: Immunoaffinity chromatography

Species Reactivity: Human

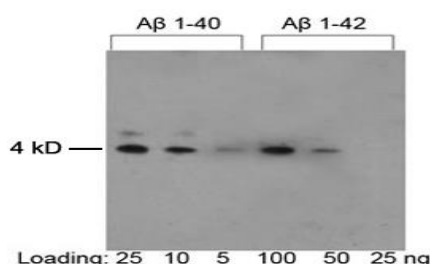
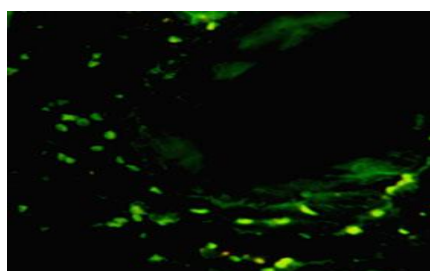
Reconstitution:

Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.

Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at $2-8^{\circ}\text{C}$. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Example



Immunofluorescent analysis of human Alzheimer Disease's brain hippocampus tissue slide (Biochain, T2236052Alz) using Rabbit Anti- β -Amyloid (1-17) Polyclonal Antibody (GenScript, A00685)

Western blot analysis of human β -Amyloid 1-40 and β -Amyloid 1-42 peptides using Rabbit Anti- β -Amyloid (1-17) Polyclonal Antibody (GenScript, A00685)