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Monoclonal Antibody to Amyloid beta (1-40/42) - FITC

Alternate names: Amyloid beta peptide

Catalog No.: AM00002FC-N

Quantity: 0.1 mg

Concentration: 0.5 mg/ml

Background: The beta-amyloid peptide (beta A4), proteolytically released from the amyloid precursor protein (APP), is the principal component of senile plaques in Alzheimer's disease. Cleavage of APP by alpha-secretase or alternatively by beta-secretase leads to generation and extracellular release of soluble APP peptides, S-APP-alpha and S-APP-beta, respectively, and the retention of corresponding membrane-anchored C-terminal fragments, C83 and C99. Subsequent processing of C83 by gamma-secretase yields P3 peptides. This is the major secretory pathway and is nonamyloidogenic. Alternatively, presenilin/nicastrin-mediated gamma-secretase processing of C99 releases the amyloid beta proteins, amyloid-beta 40 (Abeta40) and amyloid-beta 42 (Abeta42), major components of amyloid plaques, and the cytotoxic C-terminal fragments, gamma-CTF(50), gamma-CTF(57) and gamma-CTF(59).

Host / Isotype: Mouse / IgG1

Clone: 9F1

Immunogen: KLH conjugated C-terminal peptide of Amyloid beta A4 (1-40) and beta A4 (1-42).

Format:
State: Liquid purified IgG fraction.
Purification: Size Exclusion Chromatography.
Buffer System: PBS containing 0.09% Sodium Azide, PEG and Sucrose.
Label: FITC

Applications:
Immunocytochemistry: 1-10 µg/ml.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody interacts with the C-termini of both beta-Amyloid (1-40) and (1-42).
Species: Human.
Other species not tested.

Storage:
Store the antibody (aliquote in liquid nitrogen) at -80°C.
Avoid repeated freezing and thawing.
Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Shelf life: one year from despatch.