



Mouse Anti- Amyloid Beta Peptide 42 Monoclonal Antibody Datasheet

Product Name: mAb anti- Amyloid Beta Peptide 42

Clone No.: CA9 3B3

Catalogue No.: MO-M40093A

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to C-terminal of amyloid beta peptide 42 (A β 42)

Purification: Protein G affinity purified

Target Protein: C-terminal of amyloid beta peptide 42

Immunogen: KLH conjugated to a short peptide (MVGGVVIA) with amino acid sequence corresponding to the C-terminal of A β 42

Fusion Myeloma: Sp2/0-Ag14

Specificity: This antibody recognizes the C-terminal sequence (MVGGVVIA) of A β 42 and full length A β 42.

Cross-Reactivity: The antibody does not cross react with amyloid beta peptide 40 in dot blotting and ELISA. Cross-reactivity to amyloid beta peptide 43 is about 5% in ELISA.

Species Reactivity: Human and other primates; mouse, rat

Host / Isotype: Mouse, IgG2b Kappa

Formulation: Lyophilized from a solution in 0.01M PBS pH7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Aging and neurodegenerative diseases

Background: Amyloid beta peptide 42 (A β 42) is best known for its role in the formation of senile plaques in the brain of patients with Alzheimer's disease. A β 42 and A β 40 are the two major amyloid peptides that are produced after cleavage of amyloid precursor protein by secretases. A β 42 (42 amino acids) is very fibrillogenic. The beta pleated structure of A β 42 constitutes the initial and key component of the insoluble amyloid fibril in senile plaque. It is widely accepted that A β 42 contributes to the pathogenesis of Alzheimer's disease. One proposition is that the deposition of amyloid fibril onto the brain tissue results in Alzheimer's disease. Another is that the neurotoxicity of A β 42 oligomer is the cause of the disease.

Applications: **ELISA:** In combination with capturer anti-amyloid peptide N-terminal antibody (mAb clone NT 4A2, Cat. No.: MO-M40094E), the antibody can detect A β 42 in Sandwich ELISA assay.

Immuno-blot: Detect A β 42 on dot blot using anti- A β 42 clone CA9 3B3 (1 μ g/mL) on 10ng /dot of A β 40 or A β 42.



References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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