



## Mouse Anti- Amyloid Beta Peptide 42 Monoclonal Antibody Datasheet

**Product Name:** mAb anti- Amyloid Beta Peptide 42

**Clone No.:** CA9 3F8

**Catalogue No.:** MO-M40093D

**Quantity:** 0.5 mg/vial

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

**Purification:** Protein G affinity purified

**Product Type** Primary antibody

**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 $\beta$ 42

**Fusion Myeloma:** Sp2/0-Ag14

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

**Cross-Reactivity:** The antibody showed very weak to none cross-reactivity with full length A $\beta$ 43 and A $\beta$ 40 in indirect 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 $\beta$ 42) is best known for its role in the formation of senile plaques in the brain of patients with Alzheimer's disease. A $\beta$ 42 and A $\beta$ 40 are the two major amyloid peptides that are produced after cleavage of amyloid precursor protein by secretases. A $\beta$ 42 (42 amino acids) is very fibrillogenic. The beta pleated structure of A $\beta$ 42 constitutes the initial and key component of the insoluble amyloid fibril in senile plaque. It is widely accepted that A $\beta$ 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 $\beta$ 42 oligomer is the cause of the disease.

**Applications:** **IHC:** The picture below shows the 40x amplified brain tissue section from transgenic Alzheimer's disease mouse model after IHC staining with clone CA9 3F8.

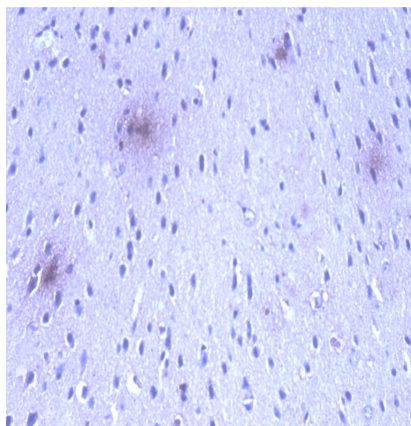
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(Procedure: After heat induced epitope retrieval, formalin-fixed paraffin-embedded brain tissue section from 12 month old APPswe/PSEN1dE9 mouse was incubated at 4°C with 0.01mg/ml CA9 3F8 overnight. Bound antibody was detected using a HRP-labeled goat anti-mouse antibody.)

### **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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