



## Mouse Anti- Amyloid Beta Peptide 40 Monoclonal Antibody Datasheet

**Product Name:** mAb anti- Amyloid Beta Peptide 40

**Clone No.:** CV9 7B10

**Catalogue No.:** MO-M40095A

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to C-terminal of amyloid beta peptide 40 (A $\beta$ 40)

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody-**Detection** antibody in matched antibody pair.

**Target Protein:** C-terminal of amyloid beta peptide 40

**Immunogen:** KLH conjugated to a short peptide (GLMVGGVV) with amino acid sequence corresponding to the C-terminal of A $\beta$ 40

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

**Specificity:** This antibody recognizes the C-terminal sequence (GLMVGGVV) of A $\beta$ 40 and full length A $\beta$ 40. The antibody showed very weak to none cross-reactivity with A $\beta$ 43 and A $\beta$ 42.

**Species Reactivity:** Human and other primates; mouse, rat

**Host / Isotype:** Mouse, IgG1 Kappa

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

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

**Storage:** Store at -20°C

**Research Area:** Aging and neurodegenerative diseases

**Background:** A $\beta$ 40 and A $\beta$ 42 are the two major amyloid peptides formed after cleavage of amyloid precursor protein. In blood and cerebrospinal fluid, the concentration of A $\beta$ 40 is about 10 times higher than that of A $\beta$ 42. A $\beta$ 40 is the main component in the amyloid deposit of vascular amyloid angiopathy. Detection of A $\beta$ 40 is useful for the prediction of Alzheimer's disease. Lower than normal A $\beta$ 42/A $\beta$ 40 ratio in cerebrospinal fluid was found to be associated with increased risk of mild cognitive impairment and Alzheimer's 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 $\beta$ 40 in Sandwich ELISA assay.

**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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