



**Biotin Conjugated Mouse Anti-Amyloid Beta Peptide 40 Monoclonal Antibody Datasheet**

**Product Name: Biotin conjugated mAb anti- Amyloid Beta Peptide 40 Clone No.: CV9 7B10**

**Catalogue No.: MO-M40095TB**

**Quantity: 0.1 mL/vial**

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

**Purification:** Protein G affinity purified

**Product Type:** **Tracer** antibody in matched antibody pair, biotin conjugated

**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.

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

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

**Storage Buffer Formulation:** 0.01M PBS, pH 7.0  $\pm$  0.1 in 1% gelatin and 0.1% proclin-300

**Storage Condition:** Store at -20°C. Avoid repeated freeze and thaw cycles.

**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 predication 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 anti-amyloid peptide N-terminal antibody (mAb clone NT 5B8, Cat. No.: MO-M40094D) and avidin-HRP conjugate, this biotin conjugated antibody can be used as a tracer to 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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