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# Mouse Anti-human Amyloid Beta Peptide N-terminal Antibody Datasheet

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| **Product Name: mAb anti-human amyloid beta peptide N-terminal** | **Clone No.: NT 6C8** | **Lot No.:** |
| **Catalogue No.: MO-M40094C** | **Quantity: 0.5 mg/vial × 1** | **Expiration:** |

**Description:** Mouse monoclonal antibody against **N-terminal** sequence of human amyloid beta peptides

**Purification:** Protein G affinity purified

**Target Protein:** **N-terminal** sequence of human beta amyloid peptide

**Immunogen:** N-terminal peptide (DAEFRHDS) of human beta amyloid peptides, conjugated with KLH

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

**Specificity:** This antibody recognizes the N-terminal peptide (DAEFRHDS) of human beta amyloid peptides and also reacts with full length Aβ40, Aβ42 and Aβ43.

**Species Reactivity:** Human

**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.

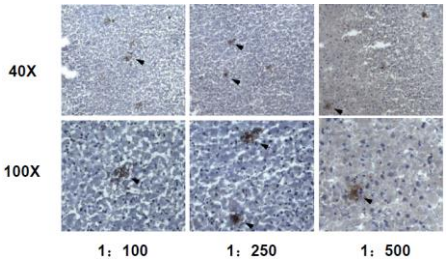
**Storage:** Store at -20°C

**Research Area:** Aging and neurodegenerative diseases

**Background:** Amyloid beta peptides Aβ42 and Aβ40 have been investigated extensively for predicating Alzheimer's disease. A recent study on amyloid beta peptide Aβ43 in brain showed that Aβ43 is more fibrillogenic than other amyloid beta peptides and could be more useful as a biomarker or therapeutic target for Alzheimer's disease.

Since Aβ40, Aβ42 and Aβ43 are different only at the few C-end amino acids, antibody to N-terminal sequence can bind with all three amyloid beta peptides.

**Applications:** **Immunohistochemistry:** The images below are IHC staining of the brain tissue of Alzheimer's Disease transgenic (ADTg) mouse. Anti-amyloid β42 peptide antibody 6C8 reacts with the plaques on AD Tg mouse brain tissues at 10μg/ml (1:100), 4μg/ml (1:250) and 2μg/ml (1:500).

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**ELISA:** The antibody reacts with the N-terminal peptide coated plate in indirect EIA.

**References:**

1. Y Zhang et al., Amyloid-β induces hepatic insulin resistance in vivo via JAK2. Diabetes (2013) 62, 4:1159-1166.

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