Mouse anti Amyloid beta Monoclonal Antibody

Alternative Name(s): Aβ, Abeta

Order Information

- **Description:** Amyloid beta
- **Catalogue:** 604-060
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 7N22
- **Application:** IHC(P), WB, ELISA
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide derived from amyloid beta (1-20aa)

BACKGROUND

Amyloid beta peptides are derived from the amyloid precursor protein (APP) which is cleaved by beta and gamma secretases. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. The aggregation of the amyloid beta peptide into oligomers or fibrils is now implicated as a key process associated with progression of AD, the most common cause of dementia in senior population. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy).

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human Amyloid beta protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 125.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS

Immunohistochemistry: Human brain (AD) (FFPE) stained with Mouse anti-Amyloid antibody (Cat# 604-060) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES