

Amyloid A4 / Amyloid β Ab-1 (Clone BAM01; same as 6F/3D)**Mouse Monoclonal Antibody****Cat. #MS-1167-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)****Cat. #MS-1167-R7 (7.0ml)** (Ready-to-Use for Immunohistochemical Staining)**Cat. #MS-1167-PCS (5 Slides)** (Positive Control for Histology)

Description: Amyloid beta-protein/amyloid A4 or amyloid beta-peptide is derived from the amyloid beta-precursor protein. Beta amyloid is an extracellular filamentous protein deposit found in the brain. It is the major protein component of amyloid cores, neuritic plaques and is also found as a deposit in neurofibrillary tangles. In man, Alzheimer's disease is the most common cause of senile dementia and is characterized by abnormal filamentous protein deposits in the brain. Beta amyloid deposits are also detected in Lewy body dementia, Down's syndrome, amyloidosis (Dutch type) and in the Guam Parkinson-Dementia complex.

Mol. Wt. of Antigen: 102kDa (precursor) 4-5kDa (mature)

Epitope: aa 8-17 (SGYEVHHQKL) of mature amyloid A4 / amyloid β which is the same as aa 660-669 of human amyloid A4 / amyloid β protein precursor

Species Reactivity: Human. Others-not tested.

Clone Designation: BAM01; same as 6F/3D

Ig Isotype / Light Chain: IgG₁ / k

Immunogen: A synthetic peptide consisting of residues 8-17 (SGYEVHHQKL) of the amyloid beta-protein / amyloid A4 which is the same as aa 660-669 of human amyloid A4 / amyloid β protein precursor.

Applications and Suggested Dilutions:

- Immunohistology (Formalin/paraffin only)
(Use Ab at 1:25-1:50 for 60 min at RT)
- * [Staining of formalin-fixed tissues will be enhanced by pretreatment with 95% formic acid for 5-30 min at RT. Thorough washing must be performed after the acid treatment.]

The optimal dilution for a specific application should be determined by the investigator.

Cellular Localization: Transmembrane (APP) and extracellular (amyloid β)

Positive Control: Human brain of Alzheimer's disease.

Supplied As:

Tissue culture supernatant with 0.09% sodium azide, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Storage and Stability:

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

Key References:

1. Tanzi RE, et al.. Nature 1988; 331:528-30.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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