INVIVO
BioTech Services GmbH
a BRUKER company

Anti-human beta-amyloid 1-12 mAb 3C4

Description:

Aβ peptides, generated from amyloid precursor protein (APP), are produced in all healthy tissues and may regulate synaptic activity, neural plasticity, and microbial defense in the CNS. In Alzheimer's disease, however, Aβ accumulates and aggregates into amyloid plaques in memory- and cognition-related brain regions. The "amyloid cascade hypothesis" proposes that disease arises from imbalances in Aβ production, aggregation, and clearance. While age and genetic mutations contribute, the precise mechanisms are not yet understood.

The clone 3C4 is a Monoclonal Mouse antibody against Human B−amyloid 1-12, Beta-Amyloid, Amyloid-Beta (Uniprot: P05067 · A4, amyloid-beta precursor protein).

The antibody is produced exclusively from hybridoma and purified through one-step purification with Protein-A affinity chromatography.

Product-ID:	**INV4000063**
Clone:	3C4
Immunogen:	Animals were immunized with Synthetic peptide VKMDAEFRHDSGY
Host:	Mouse
Clonality:	Monoclonal
Isotype:	IgG1k
Formulation:	Clear Liquid, PBS, pH 7.4
Concentration:	> 1.0 mg/ml
Purity:	> 95% by SDS-PAGE
Sizes available:	0.1 mg and 1.0 mg
Storage:	at - 20 °C (repeated thawing and freezing should be avoided)
Tested application(s):	ELISA, Western Blot, Immunhistochemistry

The product is for research use only and not for use in diagnostic or therapeutic procedures.

Literature:

[1] - Petersen RC, Graf A, Atkins AS, Brys M, Murphy J, Miller DS, Reyderman L, Siemers E, Smith J, Carrillo MC, Weber CJ. Understanding the impact of amyloid beta targeted therapies on biomarkers and clinical endpoints in Alzheimer's disease. Alzheimers Dement (N Y). 2025 May 24;11(2):e70069. doi: 10.1002/trc2.70069. PMID: 40417267; PMCID: PMC12102660.

[2] - Gallardo G, Holtzman DM. Antibody Therapeutics Targeting Aβ and Tau. Cold Spring Harb Perspect Med. 2017 Oct 3;7(10):a024331. doi: 10.1101/cshperspect.a024331. PMID: 28062555; PMCID: PMC5500436.

InVivo BioTech Services GmbH is certified to ISO 9001 and ISO 13485.