

Product datasheet for **AM00001PU-N**

Amyloid beta (1-40 specific) Mouse Monoclonal Antibody [Clone ID: 5C3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C3
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA: 0.1 µg/ml. Immunoblotting: 1.0 µg/ml for HRPO/ECL detection. Recommended buffer: Casein/Tween20 based blocking and blot incubation buffer. Included Positive Control: HepG2 pervanadate treated Cell Lysate (please see: 'Protocols'). Immunocytochemistry: 1-10 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	C-terminal peptide (aa 1-40) of Amyloid beta A4 - conjugated to KLH
Specificity:	This antibody specifically interacts with the C-Terminus of beta-Amyloid (1-40) and does not crossreact with beta-Amyloid (1-42).
Formulation:	1 ml 2 x PBS/0.09% Sodium Azide/PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -20°C to -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months. Avoid repeated freeze-thaw cycles.



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Background:

The beta-amyloid peptide (beta A4), proteolytically released from the amyloid precursor protein (APP), is the principal component of senile plaques in Alzheimer's disease. Cleavage of APP by alpha-secretase or alternatively by beta-secretase leads to generation and extracellular release of soluble APP peptides, S-APP-alpha and S-APP-beta, respectively, and the retention of corresponding membrane-anchored C-terminal fragments, C83 and C99. Subsequent processing of C83 by gamma-secretase yields P3 peptides. This is the major secretory pathway and is nonamyloidogenic. Alternatively, presenilin/nicastrin-mediated gamma-secretase processing of C99 releases the amyloid beta proteins, amyloid-beta 40 (Abeta40) and amyloid-beta 42 (Abeta42), major components of amyloid plaques, and the cytotoxic C-terminal fragments, gamma-CTF(50), gamma-CTF(57) and gamma-CTF(59).

Product images:

Immunoblot Analysis: Amyloid beta A4 peptides were applied on SDS-PAGE and transferred to a PVDF membrane. The Immunoblot was probed with 2 g/ml mab bA4 (40)-5C3 for 1h at 15-22C and developed by ECL (exposure time: 30 sec). Lane 1: bA4 (1-40), Lane 2: bA4