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Product datasheet for AM00001BT-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. **Immunocytochemistry**: 1-10 µg/ml. **Western blot**: 1 µg/ml for HRPO/ECL detection. ***Recommended blocking buffer:*** Casein/Tween 20 based blocking and blot incubation buffer.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	C-terminal peptide 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:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography.
Conjugation:	Biotin
Storage:	Store the antibody (aliquote in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.
Stability:	Shelf life: one year from despatch.

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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 2g/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 (