

## Product datasheet for **AM00004PU-N**

### Amyloid beta (1-43 specific) Mouse Monoclonal Antibody [Clone ID: 6G12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	6G12
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> 0.05 µg/ml. <b>Western blot:</b> 1 µg/ml for HRPO/ECL detection. <b>Recommended Blocking Buffer:</b> Casein/Tween-20 based blocking and Blot incubation buffer.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	C-terminal peptide of Amyloid bA4 (1-43) conjugated to KLH.
Specificity:	This antibody specifically interacts with the C-Terminus of b-Amyloid (1-43) and <b>does not</b> cross react with b-Amyloid (1-40) or (1-42), respectively.
Formulation:	1 ml 2xPBS containing 0.09% Sodium Azide as preservative and PEG and Sucrose as stabilizer State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1 ml H <sub>2</sub> O (15 min, RT)
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	For long term storage prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -80°C for longer. Avoid repeated freezing and thawing.
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 (lane 1: bA4 (1-40); lane 2: bA4 (1-42); lane 3: bA4 (1-43)) were applied on SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with 2 g/ml AM00004PU-N for 1h at 15-22C and developed by ECL (