

**Anti-Amyloid β -peptide (human)
 Mouse monoclonal antibody**

PRODUCT NO.

HYB 310-08

Subclass: IgG₁/ κ

Clone: 12C3

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 μ L and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

Synthetic amyloid β -peptide (5-16): RHDSGYEVHHQK-NH₂ represents part of the larger amyloid β -peptide that precipitates as amyloid plaques in the brain of patients with Alzheimer's disease (1). The plaque-related peptides are 40-43 amino acid residues in length (2).

IMMUNOGEN

Amyloid β -peptide (5-16) adsorbed onto aluminum hydroxide gel

SPECIFICITY

The binding of HYB 310-08 to amyloid β -peptide depends on the presence of at least amino acid residues 10-16.

EPI TOPE SPECIFICITY

Epitope specificity differs from that of HYB 310-03 and HYB 310-07

REACTIVITY

HYB 310-08 was tested by ELISA in wells coated with BSA-coupled synthetic peptides from the amyloid β -peptide.

HYB 310-08 is suitable for immunoaffinity purification of amyloid β -peptide (4).

CULTURE MEDIUM

Dulbecco's modified Eagle's medium with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

- Walsh DM, Klyubin I, Fadeeva JV, Cullen WK, Anwyl R, Wolfe MS, Rowan MJ, Selkoe DJ (2002) Naturally secreted oligomers of amyloid beta protein potently inhibit hippocampal long-term potentiation in vivo. *Nature* 416:535-539.
- Abraham CR (2000) Amyloid beta peptide: a century of discoveries. *Amyloid* 7:7-9.
- Lewczuk P, Esselmann H, Meyer M, Wollscheid, Neumann M, Otto M, Maler JM, Rütther E, Kornhuber J, Wiltfang J (2003) The amyloid-b (Ab) peptide pattern in cerebrospinal fluid in Alzheimer's disease: evidence of a novel carboxyterminally elongated Ab peptide. *Rapid Commun Mass Spectrom* 17:1291-1296.
- Sen JW, Bergen HR III, Heegaard NH (2003) On-line immunoaffinity-liquid chromatography-mass spectrometry for identification of amyloid disease markers in biological fluids. *Anal Chem* 75:1196-1202.

CONDITIONS

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