

Anti-Amyloid Beta [21F12] Standard Size Ab02391-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 21F12

Alternative Name(s) of Target: Abeta; A-beta; Aβ; Aβ42; Alzheimer disease amyloid protein; S-APP-beta

UniProt Accession Number of Target Protein: P05067

Published Application(s): IP, WB, ELISA, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing A/J mice with a synthetic peptide (NH₂-CYS-NH-CH₂-(CH₂)₅-CO-GLMVGGVIA-COOH) as an immunogen.

Specificity: This antibody recognizes amino acids 33-42 of amyloid beta.

Application Notes: This antibody has very high specificity for Aβ₁₋₄₂ over Aβ₁₋₄₀. This antibody is capable of immunoprecipitating Aβ peptides ending at aa position 42 and also p3 peptides (PMID: 8917563). This antibody is also recommended for detection of amyloid beta using sandwich ELISA (PMID: 9037091, 19204155). This antibody was also used in the quantification of the proportion of full-length Aβ using western blotting (PMID: 12787077). This antibody has also been used for the identification of Aβ₄₂ plaques on paraffin frontal sections (PMID: 15215183, 19660650). This antibody is unable to bind plaques in unfixed brain sections. This antibody is also not capable of clearing plaque after in vivo administration (PMID: 10932230).

Antibody First Published in: Citron et al. Evidence that the 42- and 40-amino acid forms of amyloid beta protein are generated from the beta-amyloid precursor protein by different protease activities. Proc Natl Acad Sci U S A. (1996); 93(23):13170-5. [PMID:8917563](#)

Note on publication: Describes the generation of different amino acid forms of amyloid beta by different protease activities.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.