

## Anti-Amyloid Beta [21F12] Standard Size Ab02391-10.0

This chimeric human 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:** Human IgG1, 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 (NH<sub>2</sub>-CYS-NH-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>5</sub>-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 Aβ<sub>1-42</sub> over Aβ<sub>1-40</sub>. 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 Aβ<sub>42</sub> 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.