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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Amyloid beta [scFv59] Standard Size Ab04214-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human scFv format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: scFv59

Alternative Name(s) of Target: Aβ; Abeta; Amyloid-beta precursor protein; APP; ABPP; APPI; Alzheimer disease amyloid A4 protein homolog; Alzheimer disease amyloid protein; Amyloid precursor protein; Amyloid-beta (A4) precursor protein; Amyloid-beta A4 protein; Cerebral vascular amyloid peptide (CVAP); PreA4; Protease nexin-II (PN-II)

UniProt Accession Number of Target Protein: P05067

Published Application(s): in vivo, MTT assay, ThT assay, WB, ELISA, IHC

Published Species Reactivity: Human, Mouse

Immunogen: The original antibody was isolated from a human scFv phage library by screening against Abeta1-42.

Specificity: This antibody is specific for oligomeric as well as fibrillar/aggregated Aβ.

Application Notes: The scFv version of this antibody demonstrated the highest ELISA titer for Aβ immunoreactivity against Aβ1-42, and its specificity for oligomeric and fibrillar/aggregated Aβ was demonstrated in a WB. The scFv version of this antibody reacted with amyloid beta deposits in brain sections from a Tg2576 mouse and in skeletal muscle sections from a Tg13592 mouse, as observed via IHC. The scFv version of this antibody was used to inhibit the formation of Aβ fibril formation *in vitro* as demonstrated in a Thioflavin T assay. This inhibition contributed to the amelioration of Aβ cytotoxicity as was shown *in vitro* in an MTT assay; cell viability increased from 45.2 ± 0.78% to 58.8 ± 5.45% (P = 0.069) in the presence of scFv59. Furthermore, Tg2576 mice subjected to scFv59 injection in the hippocampus and cortex had fewer diffuse and fibrillar Aβ deposits in those areas than Tg2576 mice injected with PBS (Fukuchi et al., 2006; PMID: 16630540). Vascular amyloid was also stained by scFv59 (Fukuchi et al., 2006; PMID: 16766200).

Antibody First Published in: Fukuchi et al. Amelioration of amyloid load by anti-Abeta single-chain antibody in Alzheimer mouse model *Biochem Biophys Res Commun.* 2006 May 26;344(1):79-86. doi: 10.1016/j.bbrc.2006.03.145

[PMID:16630540](#)

Note on publication: The original publication explores the potential of a human single-chain antibody that specifically targets oligomeric Abeta and amyloid plaques in Alzheimer's disease mouse models.

Product Form

Size: 100 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.