



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Amyloid beta [scFv59] Bulk Size Ab04214-30.11-BT

This is an scFv fragment with a His tag.

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

**Isotype and Format:** scFv fragment (His), ScFv

**Clone Number:** scFv59

**Alternative Name(s) of Target:** A $\beta$ ; 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 A $\beta$ .

**Application Notes:** The scFv version of this antibody demonstrated the highest ELISA titer for A $\beta$  immunoreactivity against A $\beta$ 1-42, and its specificity for oligomeric and fibrillar/aggregated A $\beta$  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 A $\beta$  fibril formation *in vitro* as demonstrated in a Thioflavin T assay. This inhibition contributed to the amelioration of A $\beta$  cytotoxicity as was shown *in vitro* in an MTT assay; cell viability increased from  $45.2 \pm 0.78\%$  to  $58.8 \pm 5.45\%$  ( $P = 0.069$ ) in the presence of scFv59. Furthermore, Tg2576 mice subjected to scFv59 injection in the hippocampus and cortex had fewer diffuse and fibrillar A $\beta$  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 Aβ and amyloid plaques in Alzheimer's disease mouse models.

## Product Form

**Size:** 500 µg Purified antibody in bulk size.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.