



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-Cholera enterotoxin B subunit [A9 (LCTA9)] Bulk Size Ab02809-10.159-BT

This chimeric human antibody was made using the variable domain sequences of the original VHH format for improved compatibility with existing reagents assays and techniques.

**Isotype and Format:** Human IgG1-Fc fusion

**Clone Number:** A9 (LCTA9)

**Alternative Name(s) of Target:** ctxB; toxB; VC\_1456; Cholera enterotoxin subunit B; Cholera enterotoxin B chain; Cholera enterotoxin gamma chain; Cholera toxin B subunit

**UniProt Accession Number of Target Protein:** P01556

**Published Application(s):** SPR, ELISA

**Published Species Reactivity:** Vibrio cholerae

**Immunogen:** The original antibody was isolated from a non-immune semisynthetic llama library constructed from blood samples (6 ml) collected from the left jugular vein of three research naïve mature llamas.

**Specificity:** This antibody binds the B subunit of the cholera toxin.

**Application Notes:** The binding specificity of this antibody towards cholera toxin was checked using ELISA (PMID:17165813). SPR was used to determine the dissociation constant (Kd) of VHH A9; the Kd was determined to be  $77 \pm 5$  nM (PMID: 23385744). It was reported that two point mutations (N27D and R71I) help stabilize A9 wild-type form which has a relatively low melting point (PMID: 31342597).

**Antibody First Published in:** Goldman et al. Facile Generation of Heat Stable Antiviral and Antitoxin Single Domain Antibodies from a Semi-synthetic Llama Library. Anal Chem. 2006 Dec 15; 78(24): 8245-8255. [PMID:17165813](#)

**Note on publication:** A semisynthetic llama library was constructed from non-immune llamas and binders specific for live vaccinia virus (a smallpox virus surrogate), hen egg lysozyme, cholera toxin, ricin, and staphylococcal enterotoxin B were selected.

### Product Form

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

**Purification:** Protein A affinity purified

**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.