



# 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

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## **Anti-Cytotoxin 1 [TPL0027\_01\_A2 ] Standard Size Ab01641-10.183**

This antibody contains LALA mutations to silence Fc gamma receptor binding and reduce complement binding. It also contains YTE mutations in increase half-life via FcRn interaction.

This full-length, reformatted human antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1 LALA+YTE, Fc Silenced & half-life extended, Kappa

**Clone Number:** TPL0027\_01\_A2

**Alternative Name(s) of Target:** CTX1; CX1; Cardiotoxin F8; Cardiotoxin-I; CTX-I; Toxin CM-6; toxin CX1

**UniProt Accession Number of Target Protein:**

**Published Application(s):** ELISA

**Published Species Reactivity:** Naja nigricollis

**Immunogen:** The antibody was raised using IONTAS phage display library, a naïve human scFv library consisting of  $4.0 \cdot 10^{10}$  unique antibody fragments. Through phage display selection, scFv-presenting phages were allowed to bind a toxin, phages with unspecific binding were washed away, and the rest were eluted through enzymatic digestion. These were then amplified and used for the following round. In total three rounds of selections were completed leaving the best binders behind.

**Specificity:** TPL0027\_01\_A2 antibody recognizes cytotoxin 1, which is one of the major toxins in the venom of the black-necked spitting cobra (*Naja nigricollis*).

**Application Notes:** TPL0027\_01\_A2 antibody has a very high affinity to the cytotoxin 1. It was demonstrated by normalized ELISA, which circumvents the limitation of a simple ELISA by removing the expression variable, normalizing the amount of scFv in each well. The antibody's high affinity was confirmed by its ability to bind the target protein in a venom fraction even at 1:32,000 dilution ( $3.125 \cdot 10^{-2}$  µg/mL (Jürgensen et al., 2019 [poster])). It is recommended for the research on the antitoxin against *Naja nigricollis* snakebites.

**Antibody First Published in:** Jürgensen et al. Harnessing monoclonal antibodies for development of a specific treatment against *Naja nigricollis* envenoming. 10.13140/RG.2.2.24771.14884. PMID:

**Note on publication:** This poster describes the generation and characterization of this anti-cytotoxin 1 antibody among other antibodies directed against the venom toxins of *Naja nigricollis*.

## 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.