

## Anti-Crotoxin [CTX-scFv8] Standard Size Ab00760-10.6

This is a Fab fragment with a his-tag.

This 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 Fab fragment, His-Tagged, Lambda

**Clone Number:** CTX-scFv8

**Alternative Name(s) of Target:** Phospholipase A2 crotoxin basic chain; CB; svPLA2; Cdcum6; Phosphatidylcholine 2-acylhydrolase

**UniProt Accession Number of Target Protein:** P24027

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

**Published Species Reactivity:** South-American rattlesnake *Crotalus durissus terrificus*

**Immunogen:** scFv 8 was constructed from a phage display library using V-genes from 43 non-immunized donors.

**Specificity:** scFv binds to crotoxin and recognises epitopes overlapping BI-a (an epitopic region at the interface between the CA and CB subunits of the heterodimer) and BIII (an epitopic region on CB involved in the enzymatic activity of CB) - scFv 8 may be able to caused the two subunits to dissociate and suppress the synergistic activity between them. Crotoxin is a phospholipase A2 neurotoxin and is the main toxic component in venome from *Crotalus durissus terrificus* rattlesnakes, acting by blocking neuromuscular transmission.

**Application Notes:** scFv 8 is able to reduce the myotoxicity induced by crotoxin and is able to neutralize the lethality induced by the toxin. This scFv was also used for (competitive ELISAs).

**Antibody First Published in:** Cardoso et al. Neutralizing human anti crotoxin scFv isolated from a nonimmunized phage library. Scand J Immunol. 2000 Apr;51(4):337-44. [PMID:10736105](#)

**Note on publication:** Describes the construction and a phage library using V-genes from non-immunized donors. Studies were conducted which determined the binding region of the scFv and the neutralizing effect of the scFv on mycotoxicity and lethality in mice.

### Product Form

**Size:** 100 µg Purified antibody.

**Purification:**

Purified by Immobilized Metal Affinity Chromatography

**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.