

Anti-Crotoxin [CTX-scFv8] Standard Size Ab00760-10.3

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

This 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, Fc Silent™, 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 venom 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: 200 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.