

Anti-TTX Antibody (8Y943)

Product Details

Ig Type:	IgG
Reactivity:	(predicted:Species independent)
Molecular Weight:	Theoretical: 0.31927 kDa.
Clone:	8Y943
Purification:	Protein G purified

Applications

Application:	ELISA
Recommended	ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated TTX
Synonyms:	TETRODOTOXIN;Octahydro-12-(hydroxymethyl)-2-imino-5, 9:7, 10a-dimethano-10aH-[1, 3] dioxocino[6, 5-d] pyrimidine-4, 7, 10, 11, 12-pentol

Research Background

Tetrodotoxin, frequently abbreviated as TTX, is a potent neurotoxin with no known antidote. There have been successful tests of a possible antidote in mice, but further tests must be carried out to determine efficacy in humans. Fampridine has been shown to reverse tetrodotoxin toxicity in animal experiments.

Tetrodotoxin blocks action potentials in nerves by binding to the voltage-gated, fast sodium channels in nerve cell membranes, essentially preventing any affected nerve cells from firing by blocking the channels used in the process. The binding site of this toxin is located at the pore opening of the voltage-gated Na⁺ channel. Its name derives from Tetraodontiformes, an order that includes pufferfish, porcupinefish, ocean sunfish or mola, and triggerfish, several species that carry the toxin. Although tetrodotoxin was discovered in these fish and found in several other animals (e.g., blue-ringed octopus, rough-skinned newt, and Naticidae) it is actually produced by certain symbiotic bacteria, such as *Pseudoalteromonas tetraodonis*, certain species of *Pseudomonas* and *Vibrio*, as well as some others that reside within these animals.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481