



Mouse Anti-C. tetani toxin Monoclonal Antibody, clone IZC 279-16 (CABT-NS1529)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody binds specifically to both tetanus toxin and tetanus toxoid.
Target	C. tetani Tetanus Toxin
Immunogen	Tetanus toxoid (Tetanus toxin treated with formaldehyde for detoxification).
Isotype	IgG1, kappa
Source/Host	Mouse
Species Reactivity	C. tetani
Purification	Protein A
Conjugate	unconjugated
Applications	ELISA
Format	Liquid
Size	0.2 mL, 1.0 mL
Buffer	PBS, pH 7.2-7.4
Preservative	None
Storage	Store at $\leq -18^{\circ}\text{C}$.

BACKGROUND

Introduction

Clostridium tetani is a common soil bacterium and the causative agent of tetanus. Vegetative cells of *Clostridium tetani* are usually rod-shaped and up to 2.5 µm long, but they become enlarged and tennis racket- or drumstick-shaped when forming spores. *C. tetani* spores are extremely hardy and can be found globally in soil or in the gastrointestinal tract of animals. If inoculated into a wound, *C. tetani* can grow and produce a potent toxin, tetanospasmin, which interferes with motor neurons, causing tetanus. The toxin's action can be prevented with tetanus toxoid vaccines, which are often administered to children worldwide. *Clostridium tetani* is a rod-shaped, Gram-positive bacterium, typically up to 0.5 µm wide and 2.5 µm long. It is motile by way of various flagella that surround its body. *C. tetani* cannot grow in the presence of oxygen. It grows best at temperatures ranging from 33 to 37°C.

Keywords

Clostridium tetani Tetanus Toxin; *Clostridium tetani*; *C. tetani*; Clostridiaceae; Clostridium; *C. tetani* Tetanus Toxin