

PRODUCT SPECIFICATION



POL 004 Anti Botulinum Toxin D

Rabbit polyclonal antibody

Article No.	51470		
Product Name	POL 004 Anti Botulinum Toxin D		
Batch	03083-0121	Expiry	August 2024
Description	Preparation:	Sterile filtered, 0.22 µm pore size	
	Content:	1.0 mL ~10 mg/mL IgG	
	Solvent:	Serum with 15 mM NaN ₃	
	Storage:	2-8 °C	
Antigen	<p>The toxins produced by various strains of Clostridium botulinum are the strongest biotoxins known. In humans these toxins are responsible for food poisoning (botulism) caused by the growth of the bacterium under anaerobic conditions e.g. in canned food. The poisoning manifests itself as a symmetrical paralysis culminating in death caused by respiratory failure.</p> <p>The toxins are produced as binary proteins that possess a heavy chain (approximately 100 kDa) and a light chain (approximately 50 kDa). The heavy chain is a binding component that directs the toxin to vulnerable cells, and the light chain is an enzyme that has mono(ADP-ribosyl)ating activity (1).</p> <p>The toxins are divided into 7 groups named A, B, C, D, E, F, and G where A, B, E, and F are associated with human disease and C and D mainly with disease in animals (cattle).</p> <p>Type G is not known to cause human disease.</p>		
Immunogen	Type D botulinum toxin treated with formaldehyde for detoxification.		
Specificity	<p>In a Botulinum toxin ELISA coated with 0.1 µg/mL toxin type A, B, C D, E or F per well, POL 004 Anti Botulinum Toxin D reacts with botulinum toxin type D and shows some cross-reactivity to toxin type C.</p> <p>In an ELISA testing against botulinum toxoid A through F, POL 004 Anti Botulinum Toxin D reacts with toxoid type D as well as type C.</p>		
Epitope Specificity	Not determined.		
Immunization	Rabbits were subcutaneously immunized with toxoid together with Freund's complete adjuvant and Al(OH) ₃ initially and then likewise but with Freund's incomplete adjuvant in subsequent immunizations.		

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Application	Method	Usability	References
	ELISA	yes	In house analysis
	Immunoblotting	nd.	
	Immunofluorescence	nd.	
References	1) Simpson LL, Zepeda H, Ohishi I. (1988) Partial characterization of the enzymatic activity associated with the binary toxin (type C2) produced by Clostridium botulinum. Infect Immun. 56, 24-27.		

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Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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