

PRODUCT SPECIFICATION



POL 002 Anti Botulinum Toxin B

Rabbit polyclonal antibody

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|---------------------|--|-------------------------------------|-------------|
| Article No. | 51468 | | |
| Product Name | POL 002 Anti Botulinum Toxin B | | |
| Batch | 03081-0121 | 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 B 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 002 Anti Botulinum Toxin B reacts with botulinum toxin type B and shows some cross-reactivity to toxin type A and F.</p> <p>In an ELISA testing against botulinum toxoid A through F, POL 002 Anti Botulinum Toxin B reacts with toxoid type B and shows some cross-reactivity to toxoid type A as well as weak cross-reactivity to toxoid type C, D and F.</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. | | |

Version 1 · August 2021

Conditions

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

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