



Anti-Botulinum Neurotoxin Type B Light Chain Antibody

ORDERING INFORMATION

Catalog Number: AF5420

Lot Number: CCMJ01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS
with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: BoNT-B Light Chain

Immunogen: *E. coli*-derived rBoNT-B
Light Chain (aa 2 - 428)

Ig Type: sheep IgG

Applications: Western blot
Immunoprecipitation
Direct ELISA

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant Botulinum Neurotoxin Type B Light Chain (rBoNT-B Light Chain; aa 2 - 428; R&D Systems, Catalog # 5420-ZN). BoNT-B Light Chain specific IgG was purified by BoNT-B Light Chain affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize BoNT-B Light Chain in direct ELISAs and Western blots. In these formats, this antibody shows less than 1% cross-reactivity with rBoNT-A-LC, rBoNT-C-HCR, rBoNT-D-HCR and rBoNT-E-LC.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect BoNT-B Light Chain. The detection limit for rBoNT-B Light Chain is approximately 2 ng/lane under non-reducing and reducing conditions.

Immunoprecipitation - This antibody has been used to immunoprecipitate rBoNT-B Light Chain from *E. coli* lysates.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect BoNT-B Light Chain. The detection limit for rBoNT-B Light Chain is approximately 1 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

フナコシ株式会社

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