Datasheet for ABIN179725

anti-Botulinum Neurotoxin Type B (BoNT/B) antibody

6 Images

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Overview

Quantity:	100 µg
Target:	Botulinum Neurotoxin Type B (BoNT/B)
Reactivity:	Clostridium botulinum
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Cell-ELISA (cELISA), Flow Cytometry (FACS)

Product Details

Immunogen:	genetic immunisation with cDNA encoding BoNT/B
Clone:	GR-3G7
Isotype:	IgG1
Specificity:	Anti-BoNT/B
Purification:	Protein G

Target Details

Target:	Botulinum Neurotoxin Type B (BoNT/B)
Alternative Name:	BoNT B, Lightchain (BoNT/B Products)
Target Type:	Bacteria
Background:	Botulinum neurotoxin type B (BoNT/B) is produced by Clostridium botulinum, a genetically

Target Details

diverse class of anaerobic, spore-forming, gram-positive bacilli. Seven different botulinum toxin groups have been identified serologically and are called botulinum toxin type A,B,C,D,E,F, and G. BoNT/B is a two-chain polypeptide with a 100-kDa heavy chain, which is responsible for neurospecific binding joined by a disulphide bond to a 50-kDa light chain, a zinc-endopeptidase which blocks neurotransmitter release. BoNT/B is one of the most poisonous naturally occurring substances. It inhibits acetylcholine release from neuromuscular junctions while it is used as an important therapeutic mainstay in the treatment of spasticity disorders and as a cosmetic treatment.

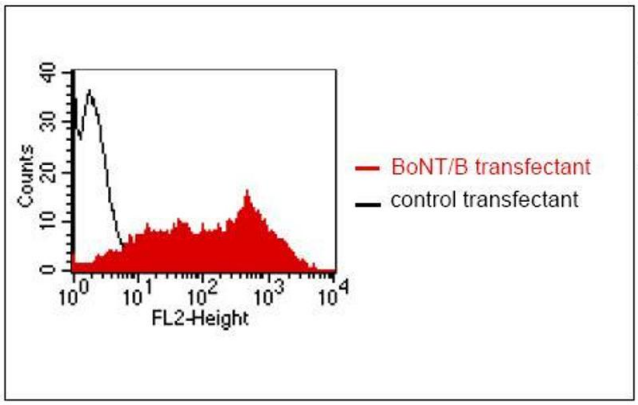
Application Details

Application Notes:	Flow cytometry: 1.2 µg/10^6 cells CELISA: 1:200 - 1:400 For each application a titration should be performed to determine the optimal concentration.
Restrictions:	For Research Use only

Handling

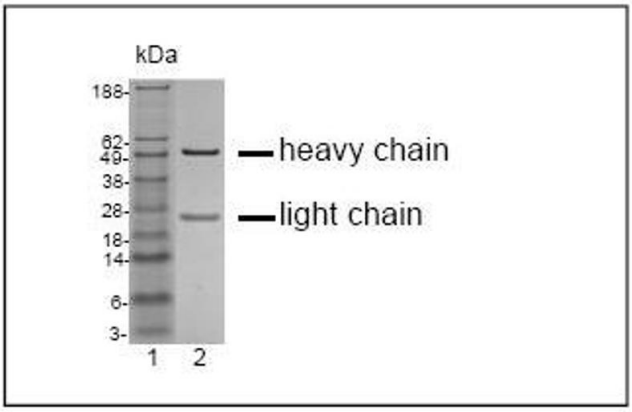
Concentration:	2 mg/mL
Buffer:	PBS, pH 7.2
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C
Storage Comment:	short term: 2 °C - 8 °C, long term: -20 °C

Images



Flow Cytometry

Image 1. FACS analysis of BOSC23 cells using GR-3G7. BOSC23 cells were transiently trans-fected with an expression vector encoding eitherBoNT/B(red curve) or an irrelevant protein (controltransfectant). Binding of GR-3G7 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with BoNT/B transfected cells.



Western Blotting

Image 2. SDS-PAGE analysis of purified GR-3G7 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 ug ofpurified GR-3G7 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain Reagent.

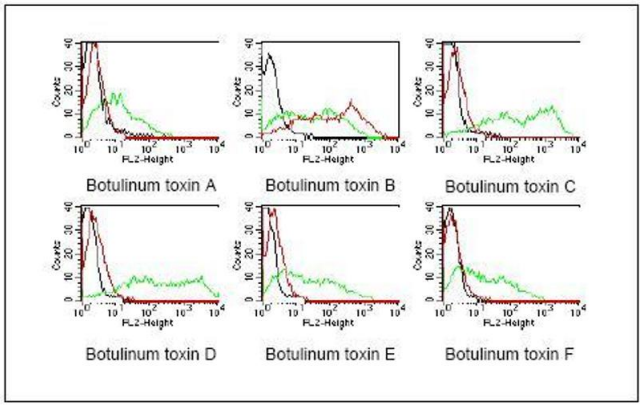


Image 3. BOSC23 cells were transiently transfected withexpression vectors containing the cDNA of the lightchain of botulinum toxin A-F. Expression of the constructs was tested with an anti-myc antibody (greencurves). An irrelevant monoclonal antibody served as an

Please check the product details page for more images. Overall 6 images are available for ABIN179725.