abcam

Product datasheet

Anti-Clostridium botulinum Toxin B antibody [GR-3G7] ab59715

1 Image

Overview

Product name	Anti-Clostridium botulinum Toxin B antibody [GR-3G7]
Description	Mouse monoclonal [GR-3G7] to Clostridium botulinum Toxin B
Host species	Mouse
Specificity	This antibody reacts with Clostridium botulinum Toxin B.
Tested applications	**Suitable for:** Flow Cyt, Competitive ELISA
Species reactivity	**Reacts with:** Clostridium botulinum
Immunogen	Genetic immunisation with cDNA encoding Clostridium botulinum Toxin B.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	GR-3G7
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab59715 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

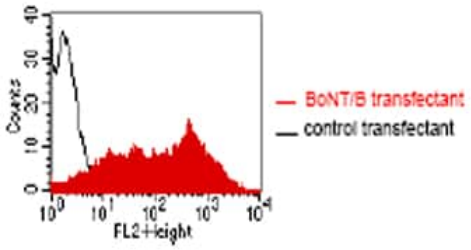
Application	Abreviews	Notes
Flow Cyt		Use 1.2µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
Competitive ELISA		1/200 - 1/400.

Target

Relevance Botulinum toxin acts by inhibiting neurotransmitter release. It binds to peripheral neuronal synapses, is internalized and moves by retrograde transport up the axon into the spinal cord where it can move between postsynaptic and presynaptic neurons. It inhibits neurotransmitter release by acting as a zinc endopeptidase that cleaves the 76 Gln | Phe 77 bond of synaptobrevin 2.

Cellular localization Secreted

Images



Flow Cytometry - Anti-Clostridium botulinum Toxin B antibody [GR-3G7] (ab59715)

BOSC23 cells were transiently trans-fected with an expression vector encoding either Clostridium botulinum Toxin B (red curve) or an irrelevant protein (control transfectant). Binding of ab59715 was detected with a PE conjugated secondary antibody. A positive signal was obtained only with Clostridium botulinum Toxin B transfected cells.

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