

Product datasheet for DM1233

OriGene Technologies, Inc.

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Clostridium botulinum Toxin B Mouse Monoclonal Antibody [Clone ID: GR3G7]

Product data:

Product Type: Primary Antibodies

Clone Name: GR3G7

Applications: ELISA, FC, WB

Recommended Dilution: Flow cytometry: 1.2 µg/106 cells.

Cell based ELISA with intakt, transiently transfected cells: 1/200-1/400.

Reactivity: Clostridium botulinum

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Genetic immunisation with cDNA encoding BoNT/B.

Specificity: Recognizes Botulinum Neurotoxin type B (BoNT/B).

Formulation: Phosphate buffered saline, pH 7.2

State: Purified

State: Liquid purified Ig fraction

Concentration: lot specific

Purification: Affinity Chromatography on Protein G

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.





Background:

Botulinum neurotoxin type B (BoNT/B) is produced by Clostridium botulinum, a genetically 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.

Synonyms:

Botulinum Neurotoxin type B, Bontoxilysin B, Bot B, BoNT/B

Note:

SDS-PAGE analysis of GR-3G7:

The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Figure.3).

Product images:

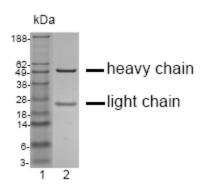


Figure 3. SDS-PAGE analysis of purified GR-3G7 monoclonal antibody. Lane 1: Molecular Weight marker Lane 2: 2 g of purified GR-3G7 antibody. Proteins were separated by SDS-PAGE and stained withRAPID StainTM Reagent.

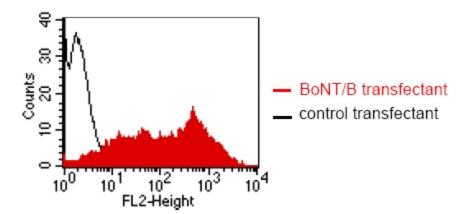


Figure.1: FACS analysis of BOSC23 cells using GR-3G7 (Cat.#DM1233). BOSC23 cells were transiently transfected with anexpression vector encoding either CGA (Red curve) or anirrelevant protein (Control transfectant: black curve). Binding of GR-3G7 was detect



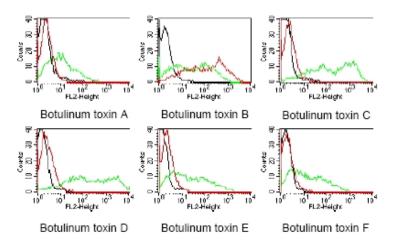


Figure.2: Antibody cross-reactivity with members of the Botulinum toxin family: BOSC23 cells were transiently transfected withexpression vectors containing the cDNA of the lightchain of botulinum toxin A-F. Expression of theconstructs was tested with an an