



Anti-C. botulinum type A Neurotoxin Polyclonal antibody (DPAB1459)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	C. botulinum Type A Neurotoxin
Target	C. botulinum type A Neurotoxin
Immunogen	Type A Neurotoxin
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	C. botulinum
Purification	Protein G chromatography
Conjugate	Unconjugated
Applications	Suitable for use in dot blot, ELISA (1:10,000) and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	1.67mg/ml (OD280nm, E0.1% = 1.4)
Size	1 mg
Buffer	1X PBS, pH 7.2 containing 20% glycerol
Preservative	None
Storage	Upon receipt, aliquot and store at -20°C to -80°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction Clostridium botulinum is a rod-shaped microorganism. It is an obligate anaerobe, meaning that oxygen is poisonous to the cells. However, C. botulinum tolerates traces of oxygen due to the enzyme superoxide dismutase (SOD) which is an important antioxidant defense in nearly all cells exposed to oxygen. C. botulinum is only able to produce the neurotoxin during sporulation, which can only happen in an anaerobic environment. Other bacterial species produce spores in an unfavorable growth environment to preserve the organism's viability and permit survival in a dormant state until the spores are exposed to favorable conditions.

Keywords Clostridium Botulinum Type A Neurotoxin; Bacteria; Clostridia; Clostridiales; Clostridiaceae; Clostridium; C. botulinum; Clostridium botulinum