

Product Information

Size:

50ug

Reactivity:

Clostridium botulinum

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA

Recommended dilutions:**Protein Background:**

Inhibits acetylcholine release. The botulinum toxin binds with high affinity to peripheral neuronal presynaptic membrane to the secretory vesicle protein SV2. It binds directly to the largest luminal loop of SV2A, SV2B and SV2C. It is then internalized by receptor-mediated endocytosis. The C-terminus of the heavy chain (H) is responsible for the adherence of the toxin to the cell surface while the N-terminus mediates transport of the light chain from the endocytic vesicle to the cytosol. After translocation, the light chain (L) hydrolyzes the 197-Gln-|-Arg-198 bond in SNAP-25, thereby blocking neurotransmitter release. Inhibition of acetylcholine release results in flaccid paralysis, with frequent heart or respiratory failure.

Gene ID:

botA

Uniprot

PODPIO

Synonyms:

Botulinum neurotoxin type A (BoNT/A) (EC 3.4.24.69) (Bontoxilysin-A) (BOTOX) [Cleaved into: Botulinum neurotoxin A light chain; Botulinum neurotoxin A heavy chain], botA, atx bna

Immunogen:

Recombinant Clostridium botulinum Botulinum neurotoxin type A protein (1-436AA).

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

Product Images

N/A

N/A