

Anti-AC toxin [2F5] Bulk Size Ab02895-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: 2F5

Alternative Name(s) of Target: AC; Bordetella pertussis adenylate cyclase toxin; adenylate cyclase toxin

UniProt Accession Number of Target Protein:

Published Application(s): WB, ELISA

Published Species Reactivity: Bordetella pertussis

Immunogen: The mouse version of this antibody was generated by immunizing BALB/c mice with Bordetella pertussis adenylate cyclase toxin purified using sucrose gradient centrifugation.

Specificity: This antibody is specific for the glycine and aspartate-rich nonapeptide repeat region (amino acids 1156-1489) of Bordetella pertussis adenylate cyclase toxin.

Application Notes: The mouse version of this antibody was used for immunoblotting on different epitopes of the adenylate cyclase toxin from Bordetella pertussis. It was most sensitive to amino acids 1156-1489 (Lee et al, 1999; pmid:10225859). An ELISA was performed on purified AC toxin using the mouse version of this antibody. The binding of the mouse version of this antibody was assessed at different calcium concentrations. It showed only a small decrease in binding affinity at high calcium concentration (Hewlett et al, 1991; pmid:1894634).

Antibody First Published in: Hewlett et al. Adenylate cyclase toxin from Bordetella pertussis. Identification and purification of the holotoxin molecule J Biol Chem. 1989 Nov 15;264(32):19379-84.

[PMID:2553737](#)

Note on publication: Bordetella pertussis adenylate cyclase (AC) toxin is a calmodulin-activated adenylate cyclase enzyme which has the capacity to enter eukaryotic target cells and catalyze the conversion of endogenous ATP into cyclic AMP. In this work, the AC holotoxin molecule is identified and isolated.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.