Anti-Shiga toxin 1 [5-5B] Standard Size Ab00934-23.0

This chimeric rabbit 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: Rabbit IgG, Kappa
Clone Number: 5-5B
Alternative Name(s) of Target: Stx1; stx1B
UniProt Accession Number of Target Protein: Q8X4M7
Published Application(s): Neutralisation, WB, ELISA
Published Species Reactivity: Escherichia coli
Immunogen: This antibody was raised by immunising mice with Stx1 toxoid.
Specificity: This antibody is specific for the Stx1 B subunit, and does not recognise Stx2
Application Notes: This antibody has been shown to bind the B subunit of Stx1 in Western blot analysis (Nakao et al, 2002). This antibody is able to neutralise Stx1 cytotoxicity (Nakao, 2002). Flow cytometric experiments have revealed that this antibody binds to free Stx1 B subunits, not cell-bound Stx1, and inhibits Stx1 binding to its receptor on target cells (Nakao et al, 2002). A Fab derived from this antibody also specifically binds Stx1, as determined by ELISA, and neutralises Stx1 cytotoxicity (Inoue et al, 2004).
Antibody First Published in: Nakao et al. Monoclonal Antibody to Shiga Toxin 1, Which Blocks Receptor Binding and Neutralizes Cytotoxicity Microbiol. Immunol., 46(11), 777—780, 2002 PMID:12516775
Note on publication: Describes the original generation of this antibody, and its use in neutralisation assays and Western blot and FC experiments.

Product Form

Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.

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