

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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Anti-Manganese transport protein C [305-78-7] Bulk Size Ab03221-1.1-BT

Isotype and Format: Mouse IgG1, Kappa

Clone Number: 305-78-7

Alternative Name(s) of Target: MntC; ABC transporter substrate-binding protein; Manganese ABC transporter substrate-binding lipoprotein; Manganese ABC transporter substrate-binding protein;

Manganese-binding lipoprotein mntA; Manganese-binding protein; Metal ABC transporter substrate-binding

protein; Periplasmic solute binding protein

UniProt Accession Number of Target Protein: W8TNQ9

Published Application(s): crystallography, in vitro, in vivo, ITC, ELISA

Published Species Reactivity: Staphylococcus aureus, Staphylococcus epidermidis

Immunogen: The original antibody was generated by immunizing mice with purified recombinant MntC. **Specificity:** The antibody binds to a conformational epitope on MntC located between K243 and E260. The epitope involves α -helix α 8, β -sheet β 8 and a short loop connecting these two structural elements. The antibody interferes with manganese binding to the protein. Staphylococcus aureus protein MntC is a metal-binding protein of the ABC-type transporter involved in the acquisition of Manganese (II) ions.

Application Notes: The antibody showed reduce S. aureus burden in an infant rat passive protection model and induced neutrophil respiratory burst activity against both Staphyloccocus aureus and Staphyloccocus epidermidis (Anderson et al., 2012; PMID: 22474033). The structure of the antibody in complex with MntC was determined. Epitope mapping was carried out using Hydrogen-Deuterium Exchange Mass Spectrometry, the results were further validated using X-ray crystallography, site-directed mutagenesis and functional studies. The binding of the antibody to MntC was tested using ITC and ELISA. ITC experiments showed that binding of the wild type MntC to the antibody was stoichiometric, the apparent Kd was 1.2 nM, and the binding enthalpy was -19.9 kcal/mol. The specificity of the antibody was confirmed by ELISA analysis, with Kd= 1.3 nM. (Gribenko et al., 2016; PMID: 27689696)

Antibody First Published in: Anderson et al. Staphy.lococcus aureus manganese transport protein C is a highly conserved cell surface protein that elicits protective immunity against S. aureus and Staphylococcus epidermidis J Infect Dis. 2012 Jun;205(11):1688-96. PMID:22474033

Note on publication: The paper describes the generation and characterization of the antibody.

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 recommed 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.