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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-*S. aureus* β -GlcNAc WTA [4497] Standard Size Ab04039-23.0

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 4497

Alternative Name(s) of Target: TA; Teichoic acids; WTA; Wall teichoic acids; GlcNAc; N-Acetylglucosamine; β -WTA; β -GlcNAc; β -1,4-GlcNAc; β -O-linked N-acetylglucosamine; β -O-linked GlcNAc sugar modifications on WTA

UniProt Accession Number of Target Protein:

Published Application(s): in vitro, in vivo, RBA, ELISA, FC, IF

Published Species Reactivity: *Staphylococcus aureus*

Immunogen: The original antibody was generated by cloning human IgG antibodies from peripheral B cells of patients who had been infected with *S. aureus*.

Specificity: This antibody is specific for *S. aureus* β -GlcNAc wall-teichoic acids (WTAs), a pathogen-specific polyanionic glycopolymer that is connected to the thick peptidoglycan layers of Gram-positive bacteria.

Application Notes: The original format of this antibody (human IgG1) was screened for antigen binding specificity using ELISA, and it was successfully used antibody was used in flow cytometry (FC) to label *S. aureus* (Lehar et al., 2015; PMID: 26536114). This antibody was used in a radioligand binding assay (RBA); affinity analysis and epitope counting were performed by saturation binding analysis using a radioiodinated version of the antibody (Fong et al., 2018; PMID: 30102105). This antibody was observed to bind strongly to planktonic Wood46 (ATCC 10832) *S. aureus* cells but very weakly to planktonic LAC Δ spa Δ sbi (AH4116) *S. aureus*. When studying the binding of WTA-specific antibodies to biofilms, this antibody was observed to bind strongly to PNAG-positive biofilm formed by Wood46 and bind *S. aureus* Wood46 in both planktonic and biofilm states. Apart from recognizing PNAG-positive biofilms, this antibody was also found to bind the PNAG-negative biofilm formed by LAC Δ spa Δ sbi. Using IF, this antibody was confirmed to bind WTA in PNAG-positive and PNAG-negative *in vitro* biofilm. This antibody was tested in a subcutaneously implanted pre-colonized catheter in mice and was found to localize to biofilm rapidly *in vivo* (de Vor et al., 2022; PMID: 34989676).

Antibody First Published in: Lehar et al. Novel antibody-antibiotic conjugate eliminates intracellular *S. Aureus* Nature. 2015 Nov 19;527(7578):323-8. doi: 10.1038/nature16057 PMID:26536114

Note on publication: The original publication describes the generation, characterization, and utilization of anti-*S. Aureus* β -WTA antibodies to treat intracellular reservoirs of *Staphylococcus aureus* in mice.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.