



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Beta Lactamase [cAbTEM13] Standard Size Ab03503-23.159

Isotype and Format: Rabbit IgG-Fc fusion

Clone Number: cAbTEM13

Alternative Name(s) of Target: β -Lactamase; bla; Beta-lactamase TEM; IRT-4; Penicillinase; TEM-1 β -lactamase; cAb-TEM13

UniProt Accession Number of Target Protein: P62593

Published Application(s): inhibit, ELISA

Published Species Reactivity: Escherichia coli

Immunogen: The original antibody was generated by immunizing adult dromedary (Camelus dromedarius) with TEM-1 β -lactamase.

Specificity: This antibody binds an enzyme called beta-lactamase produced by bacteria, which catalysis the breaking of the beta-lactam ring of beta-lactam antibiotics such as penicillin, cephalosporin, cephamycin and monobactam through hydrolysis. The breaking of the beta-lactam ring deactivates the antibacterial properties of the antibiotic molecule and provides antibiotic resistance in bacteria.

Application Notes: The binding reactivity of this antibody to TEM-1 beta-lactamase was determined using ELISA. This antibody was capable of inhibiting beta-lactamase activity in vitro with an IC50 of 0.08 μ M. The in vivo inhibition activity of this antibody to inhibit surface-exposed TEM-1 and prevent bacterial growth was assessed by preincubating cells expressing TEM-1 with increasing amounts of the antibody fragment. It was reported that when cells were preincubated with cAbTem13 before plating lost their ability to neutralize the antibiotic ampicillin (PMID: 11557473).

Antibody First Published in: Conrath et al. β -Lactamase inhibitors derived from single-domain antibody fragments elicited in the Camelidae. Antimicrob Agents Chemother. 2001 Oct; 45(10): 2807-2812.

[PMID:11557473](#)

Note on publication: Describes the generation of B-lactamase inhibitory antibodies derived from camels.

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.