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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Beta Lactamase [cAbTEM13] Standard Size Ab03503-1.159

Isotype and Format: Mouse IgG1-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 µM. 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.