

Mouse Chlortetracycline Monoclonal Antibody

Monoclonal Anti-Chlortetracycline

CATALOG # AAA59117	HOST Mouse	APPLICATIONS ELISA
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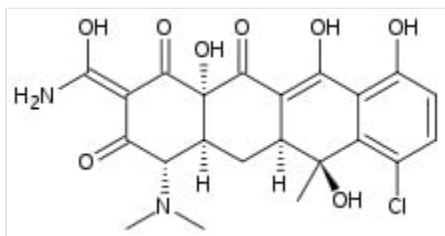
PRODUCT SYNONYMS

Chlortetracycline; Monoclonal Antibody; Monoclonal Anti-Chlortetracycline; Anti-Chlortetracycline antibody; anti-Chlortetracycline antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Purity/Purification	Purity: >95% by HPLC & SDS-PAGE Purification: Protein A or G purified
Form/Format	Liquid; supplied in 0.01 M PBS (pH7.4)
Concentration	7.2 mg/mL (Changed for different lots) (varies by lot)
Applicable Applications for anti-Chlortetracycline antibody	ELISA
Sensitivity	0.1 ppb
IC50 Value	0.8-1.2 ppb
Preparation and Storage	Aliquot and store at -20°C for 1 year. Avoid repeated freeze and thaw cycles.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for anti-Chlortetracycline antibody

Chlortetracycline is a tetracycline antibiotic, the first tetracycline to be identified. It was discovered in 1945 by Benjamin Minge Duggar working at Lederle Laboratories under the supervision of Yellapragada Subbarow. Serum chlortetracycline (CTC) concentration in dromedary camels increases within 1 hour after intrauterine administration and remains elevated for at least 72 hours in control, oxytocin-, and PGF2alpha-treated animals. Pulicharla R et al investigated the stability constants and toxicity of chlortetracycline (CTC) and metal (Ca, Mg, Cu and Cr) complexes. Their study provides evidence that CTC and its metal complexes are toxic to bacteria when they are biologically available. As for WWS, CTC was adsorbed to solid part and was not biologically available to show measurable toxic effects.

References

1. Jukes, Thomas H. Some historical notes on chlortetracycline. *Reviews of Infectious Diseases* 7(5):702-707 (1985).
2. Ghoneim IM, Abdelghany AM, Waheed MM, Elmoslemany AM, Alhaider AK, Al-Ekna MM. Effect of oxytocin and PGF2alpha on chlortetracycline absorption from the uterus of early postpartum camels (*Camelus dromedarius*). *Theriogenology*. 2015 Sep 1;84(4):645-9.
3. Pulicharla R, Das RK, Brar SK, Drogui P, Sarma SJ, Verma M, Surampalli RY, Valero JR. Toxicity of chlortetracycline and its metal complexes to model microorganisms in wastewater sludge. *Sci Total Environ*. 2015 Nov 1;532:669-75.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/chlortetracycline-antibody-elisa/59117>