

12-8557: Anti-Chlamydia Trachomatis LPS (Clone CL21-335.2.3)

Clonality :	Monoclonal
Clone Name :	CL21-335.2.3
Application :	ELISA
Isotype :	Mouse IgG2a
Immunogen Information :	C. trachomatis elementary bodies, L2 serovar

Description

Specificity

This antibody recognize LPS of Chlamydia trachomatis serovars A, B, Ba, C, D, E, F, G, H, I, J, K, L1, L2, L3. LPS-specificity confirmed as follows: antibody reactivity is eliminated after treatment of EBs with sodium periodate (which destroys LPS but leaves protein unaltered) but is unaffected by proteinase K treatment of EBs (which destroys protein but leaves carbohydrate unaltered). End users should determine optimal concentrations for their applications.

Background

Chlamydia trachomatis is a significant global health concern and the most frequently reported sexually transmitted bacterial infection (STD) in the United States, responsible for over one million annual cases. This gram-negative bacterium infects the columnar epithelium of the cervix, urethra, and rectum, as well as non-genital sites like the lungs and eyes.

The study and detection of key bacterial components, such as Lipopolysaccharide (LPS), is crucial for diagnostics and research, especially since the infection is often asymptomatic. Untreated C. trachomatis infection can lead to serious complications, including pelvic inflammatory disease (PID), infertility, and ectopic pregnancy in women, and epididymitis and orchitis in men. Researchers and diagnostic developers rely on highly specific tools like an Anti-Chlamydia trachomatis LPS Monoclonal Antibody for accurate analysis and screening.

Product Info

Amount :	500 µg / 100 µg
Purification :	Preparation: Antibodies are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Content :	Concentration: Lot Specific Formulation: This monoclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.2 - 7.4 with no carrier protein or preservatives added.
Storage condition :	This antibody is stable for at least one (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

Application Note

These antibodies have been qualified for use in ELISA to detect Chlamydia trachomatis elementary bodies and reticulate bodies.