SANTA CRUZ BIOTECHNOLOGY, INC.

C. trachomatis (BDI168): sc-57670



BACKGROUND

Chlamydia is caused by the bacterium Chlamydia trachomatis. The intracytoplasmic inclusions caused by the bacterium are draped around the infected nucleus of the cell. C. trachomatis is an intracellular organism that has a genome size of approximately 500-1000 kb and contains both RNA and DNA. It exists as 15 different serotypes which cause four major diseases in humans: endemic trachoma (caused by serotypes A and C), sexually transmitted disease and inclusion conjunctivitis (caused by serotypes D and K) and lymphogranuloma venereum (caused by serotypes L1, L2 and L3). Chlamydia usually infects the cervix and fallopian tubes of women and the urethra of men. It is one of the leading causes of blindness in underdeveloped countries. Most strains of *C. trachomatis* are recognized by monoclonal antibodies to epitopes in the VS4 region of MOMP.

REFERENCES

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RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

C. trachomatis (BDI168) is a mouse monoclonal antibody raised against C. trachomatis LGV2 elementary bodies.

PRODUCT

Each vial contains 100 μ g lgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

C. trachomatis (BDI168) is recommended for detection of LPS of Chlamydia species and with elementary bodies from serotypes L2, D, E, F, G, H, I, J and K of *Chlamydia trachomatis* origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); may cross-react with C. pneumoniae and C. psittaci.

SELECT PRODUCT CITATIONS

1. Vicetti Miguel, R.D., Henschel, K.J., Dueñas Lopez, F.C., Quispe Calla, N.E. and Cherpes, T.L. 2015. Fluorescent labeling reliably identifies Chlamydia trachomatis in living human endometrial cells and rapidly and accurately quantifies chlamydial inclusion forming units. J. Microbiol. Methods 119: 79-82.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.