Neisseria gonorrhoeae (4611): sc-57931



The Power to Question

BACKGROUND

Neisseria gonorrhoeae is a bacteria that causes the disease gonorrhoea. Spread through sexual contact, Neisseria gonorrhoeae usually colonizes the mucous membranes of the urethra. The resulting infection may spread from there to other tissues, such as the female endocervix. Neisseria species require unique nutrients to survive and proliferate. Neisseria gonorrhoeae is a Gram-negative bacteria that effectively establishes itself by attaching its fimbriae to nonciliated epithelial cells. Its mechanism of pathogenesis is furthered by producing both a highly toxic lipopolysaccharide endotoxin; it also produces IgA proteases in order to promote virulence. Common symptoms of the disease gonorrhoea include purulent gential discharge and a burning sensation during urination. Neisseria gonorrhoeae is resistant to the penicillin family.

REFERENCES

- Onodera, S., Kiyota, H., Endo, K., Suzuki, H., Hosobe, T., Takahashi, T., Egawa, S. and Kobayashi, I. 2006. Enhancement of antimicrobial activities of cefteram against cefixime-resistant *Neisseria gonorrhoeae* in the presence of clarithromycin or azithromycin. J. Infect. Chemother. 12: 207-209.
- Furuya, R., Nakayama, H., Kanayama, A., Saika, T., Iyoda, T., Tatewaki, M., Matsuzaki, K., Kobayashi, I. and Tanaka, M. 2006. *In vitro* synergistic effects of double combinations of β-lactams and azithromycin against clinical isolates of *Neisseria gonorrhoeae*. J. Infect. Chemother. 12: 172-176.
- Takahata, S., Senju, N., Osaki, Y., Yoshida, T. and Ida, T. 2006. Amino acid substitutions in mosaic penicillin-binding protein 2 associated with reduced susceptibility to cefixime in clinical isolates of *Neisseria gonorrhoeae*. Antimicrob. Agents Chemother. 50: 3638-3645.
- Stohl, E.A. and Seifert, H.S. 2006. Neisseria gonorrhoeae DNA recombination and repair enzymes protect against oxidative damage caused by hydrogen peroxide. J. Bacteriol. 188: 7645-7651.
- 5. Wang, B., Xu, J.S., Wang, C.X., Mi, Z.H., Pu, Y.P., Hui, M., Ling, T.K. and Chan, C.Y. 2006. Antimicrobial susceptibility of *Neisseria gonorrhoeae* isolated in Jiangsu Province, China, with a focus on fluoroquinolone resistance. J. Med. Microbiol. 55: 1251-1255.
- Kolader, M.E., Dukers, N.H., van der Bij, A.K., Dierdorp, M., Fennema, J.S., Coutinho, R.A. and Bruisten, S.M. 2006. Molecular epidemiology of Neisseria gonorrhoeae shows distinct heterosexual and homosexual networks. J. Clin. Microbiol. 44: 2689-2697.
- 7. Edwards, J.L. and Apicella, M.A. 2006. *Neisseria gonorrhoeae* PLD directly interacts with AKT kinase upon infection of primary, human, cervical epithelial cells. Cell. Microbiol. 8: 1253-1271.
- 8. Sethi, S., Sharma, D., Mehta, S.D., Singh, B., Smriti, M., Kumar, B. and Sharma, M. 2006. Emergence of ciprofloxacin resistant *Neisseria gonorrhoeae* in north India. Indian J. Med. Res. 123: 707-710.

SOURCE

Neisseria gonorrhoeae (4611) is a mouse monoclonal antibody raised against *Neisseria gonorrhoeae* whole cells.

PRODUCT

Each vial contains 100 μg lgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Neisseria gonorrhoeae (4611) is recommended for detection of *Neisseria gonorrhoeae* by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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

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