



# Mycoplasma hominis p120 (6505): sc-58171

## BACKGROUND

*Mycoplasma* compose a genus of small microorganisms resembling bacteria without cell walls. Many different species of *Mycoplasma* exist, all of which are aggressive invaders. *Mycoplasmas* are sometimes accidentally found in research laboratories caused by the reckless handling of cell cultures. Somewhat difficult to detect and eliminate from cell lines, these parasites are also immune to antibiotics that target cell wall synthesis. Numerous species of *Mycoplasma* proliferate in humans, but one of the most prevalent is *Mycoplasma hominis*. *Mycoplasma* species are organized into two groups based on 16S rRNA gene sequences, *Mycoplasma hominis* and *Mycoplasma pneumoniae*. The *hominis* group includes the *M. bovis*, *M. pulmonis*, and *Mycoplasma hominis species*. One of the most common pathogens of the genital tract, *Mycoplasma hominis* becomes pathogenic only upon invasion of the internal organs. Associated with increased production of proinflammatory cytokines in reproductive tissues during preterm labor, *M. hominis* also has capabilities as an extragenital pathogen in musculoskeletal infections.

## REFERENCES

- Hrdinová, M. 2005. *Mycoplasma hominis* in female genital tract. Acta Medica Suppl. 48: 73-76.
- Gorshkov, O.V., Chernov, V.M., Chernova, O.A., Baranova, N.B. and Akopian, T.A. 2005. Genetic polymorphism of *Mycoplasmas*: variability of cytoadhesion genes in clinical isolates of *Mycoplasma hominis*. Dokl. Biochem. Biophys. 404: 328-331.
- Hidalgo-Tenorio, C., Pasquau, J., López-Checa, S. and López-Ruz, M.A. 2006. Endocarditis due to *Mycoplasma hominis*. Enferm. Infecc. Microbiol. Clin. 24: 470-471.
- Dominguez, S.R., Littlehorn, C. and Nyquist, A.C. 2006. *Mycoplasma hominis* endocarditis in a child with a complex congenital heart defect. Pediatr. Infect. Dis. J. 25: 851-852.
- Karabay, O., Topcuoglu, A., Kocoglu, E., Gurel, S., Gurel, H. and Ince, N.K. 2006. Prevalence and antibiotic susceptibility of genital *Mycoplasma hominis* and *Ureaplasma urealyticum* in a university hospital in Turkey. Clin. Exp. Obstet. Gynecol. 33: 36-38.
- Dessi, D., Rappelli, P., Diaz, N., Cappuccinelli, P. and Fiori, P.L. 2006. *Mycoplasma hominis* and *Trichomonas vaginalis*: a unique case of symbiotic relationship between two obligate human parasites. Front. Biosci. 11: 2028-2034.
- Díaz-García, F.J., Herrera-Mendoza, A.P., Giono-Cerezo, S. and Guerra-Infante, F.M. 2006. *Mycoplasma hominis* attaches to and locates intracellularly in human spermatozoa. Hum. Reprod. 21: 1591-1598.
- Krijnen, M.R., Hekker, T., Algra, J., Wuisman, P.I. and Van Royen, B.J. 2006. *Mycoplasma hominis* deep wound infection after neuromuscular scoliosis surgery: the use of real-time polymerase chain reaction (PCR). Eur. Spine. J. 15: 599-603.

## SOURCE

Mycoplasma hominis p120 (6505) is a mouse monoclonal antibody raised against *Mycoplasma hominis*.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Mycoplasma hominis p120 (6505) is recommended for detection of *Mycoplasma hominis* origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Mycoplasma hominis p120: 78 kDa.

## 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](http://www.scbt.com) for detailed protocols and support products.