Mycoplasma pneumoniae (6504): sc-58173



The Power to Question

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. Sometimes accidentally found in research laboratories caused by the reckless handling of cell cultures, Mycoplasma are somewhat difficult to detect and eliminate from cell line cultures. These obligate parasites are also immune to antibiotics that target cell wall synthesis. Mycoplasma species are organized into two groups based on 16S rRNA gene sequences, Mycoplasma hominis and Mycoplasma pneumoniae. Mycoplasma pneumoniae, specifically, has one of the smallest genomes known, containing only 816 kilobase pairs. Spread through respiratory transmission, Mycoplasma pneumoniae invades and attachs to the mammalian upper and lower respiratory tract, causing bronchitis, pharyngitis and pneumonia. Disease from Mycoplasma usually demonstrates mild to moderate severity.

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SOURCE

Mycoplasma pneumoniae (6504) is a mouse monoclonal antibody raised against *Mycoplasma pneumoniae*.

RESEARCH USE

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

PRODUCT

Each vial contains 100 $\mu g\ lgG_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Mycoplasma pneumoniae (6504) is recommended for detection of *M. pneumoniae* by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.

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