



# Legionella pneumophila LPS (5F4RC): sc-52052

## BACKGROUND

*Legionella pneumophila* is a gram-negative bacterium that is considered an intracellular parasite and is associated with Legionnaires' disease. While *L. pneumophila* is categorized as a gram-negative organism, it stains poorly due to its unique lipopolysaccharide (LPS)-content in the outer leaflet of the outer cell membrane. Respiratory transmission of this organism can lead to infection, which is usually characterized by a gradual onset of flu-like symptoms. Patients may experience fever, chills, and a dry cough as part of the early symptoms and can develop severe pneumonia which is not responsive to penicillins or aminoglycosides. Legionnaires' disease also has the potential to spread into other organ-systems of the body such as the gastrointestinal tract and the central nervous system.

## REFERENCES

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4. Matsunaga, K., et al. 2001. *Legionella pneumophila* suppresses interleukin-12 production by macrophages. Infect. Immun. 69: 1929-1933.
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8. Vedam, V., et al. 2003. A *Rhizobium leguminosarum* AcpXL mutant produces lipopolysaccharide lacking 27-hydroxyoctacosanoic acid. J. Bacteriol. 185: 1841-1850.
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## SOURCE

Legionella pneumophila LPS (5F4RC) is a mouse monoclonal antibody raised against a membrane fraction of *Legionella pneumophila* strain Philadelphia 1.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>3</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Legionella pneumophila LPS (5F4RC) is recommended for detection of LPS membrane of *Legionella pneumophila* origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## 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

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