



anti- *Legionella pneumophila* antibody, rabbit polyclonal

64-004 250 μ l

Background: Legionnaires disease (LD) was recognized in 1976 after an outbreak of pneumonia at an American Legion convention in Philadelphia. Soon after, the etiologic agent was identified as a fastidious gram-negative bacillus and named *Legionella pneumophila*. Although several other species of the genus *Legionella* were subsequently identified, *L. pneumophila* is the most frequent cause of human legionellosis and a relatively common cause of community-acquired and nosocomial pneumonia in adults. In children, *L. pneumophila* is also an important, although relatively uncommon, cause of pneumonia.

Applications

- 1) Immunofluorescent and Immunochemical staining (1/10,000 ~1/30,000 dilution)
- 2) Immunohistochemistry (1/3,000~1/10,000)
- 3) ELISA (1/10,000~1/30,000 dilution)
- 4) Agglutination (1/2,000~1/5,000)

Immunogen: Formaldehyde treated whole cells of *Legionella pneumophila* strain Philadelphia 1 (ATCC #33152). Immunized 7 times at two weeks intervals.

Form: Undiluted antiserum added with 0.09% sodium azide.

Reactivity: Reacts with *Legionella pneumophila* strains. Since the antiserum has not been adsorbed, it may cross-reacts with related bacteria.

Storage: Sent at 4 °C or with ice-pack and upon arrival, aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles.





Fig.1 Immunofluorescent staining of *Legionella pneumophila* in the infected HEK293 cells using anti-*Legionella pneumophila* antibody.

HEK293 cells were infected with *Legionella pneumophila* strain Philadelphia1 fixed with 4% formaldehyde and reacted with the anti-*Legionella pneumophila* antibody at 1/10,000 dilution. As the second antibody, goat Rodamine Red X conjugated anti-rabbit IgG antibody was used at 1/10,000 dilution. DNA was stained with Hoechst 33342 (center) and the images were merged with that of differential interference contrast microscope (right).

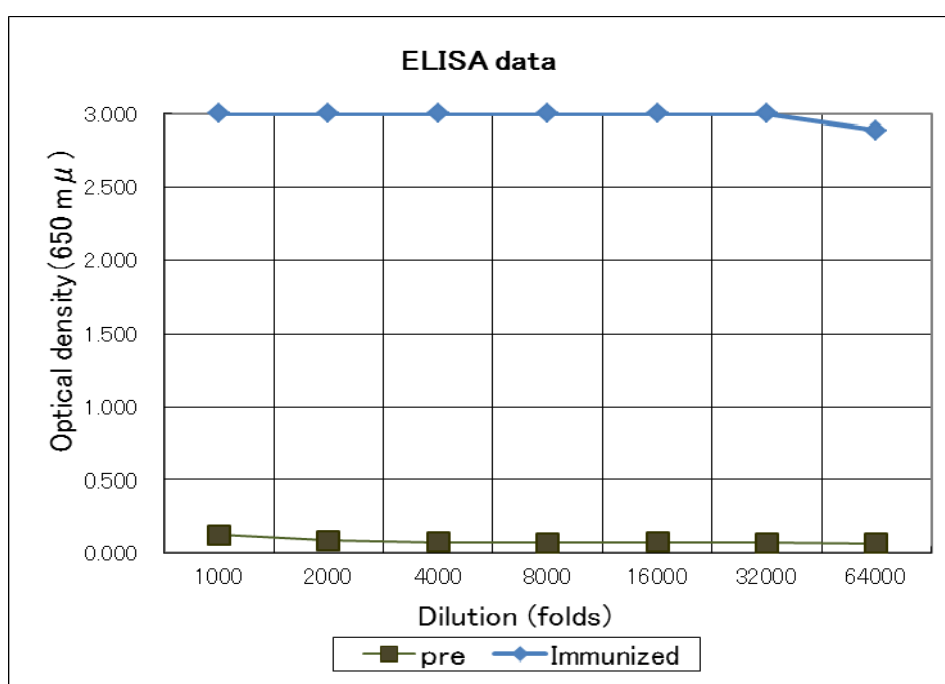


Fig.2. Titration of antibody reactivity of anti-*Legionella pneumophila* antiserum by direct ELISA

Plate was coated with 100 μl of 10⁹ cells/ml per well and 100 μl of the antiserum at the indicated dilution was added to each well and incubated. After washing, goat anti-rabbit-IgG conjugated with HRP was added as 2nd antibody. Color was developed with TMB as substrate. “pre” is preimmune serum and “Immunized” is immunized serum.

