## anti- Legionella pneumophila antibody, rabbit polyclonal

64-100　　200 μl

**Backgrouind:** 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:** Formaldehide 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℃ or with ice-pack and upon arrival, aliquot and store at -20℃. Avoid repeated freeze-thaw cycles.

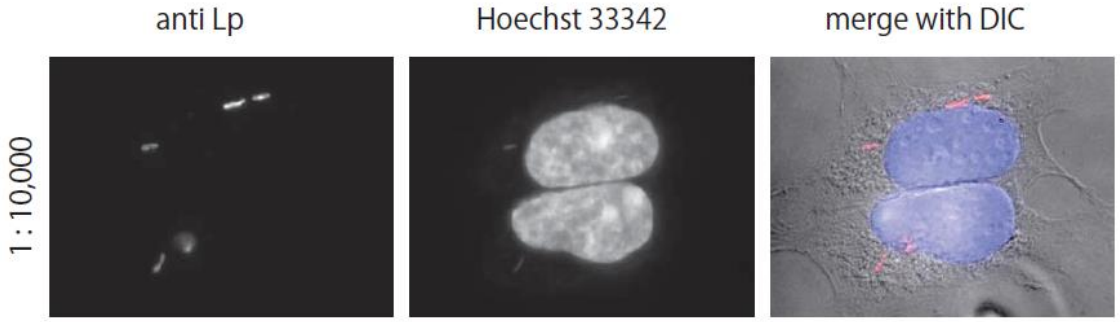


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**Fig.1 Immunofluorescent staining of Legionella pneumophila in the infected HEK293 cells using anti-Legionella pneumophila antibody.**

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).

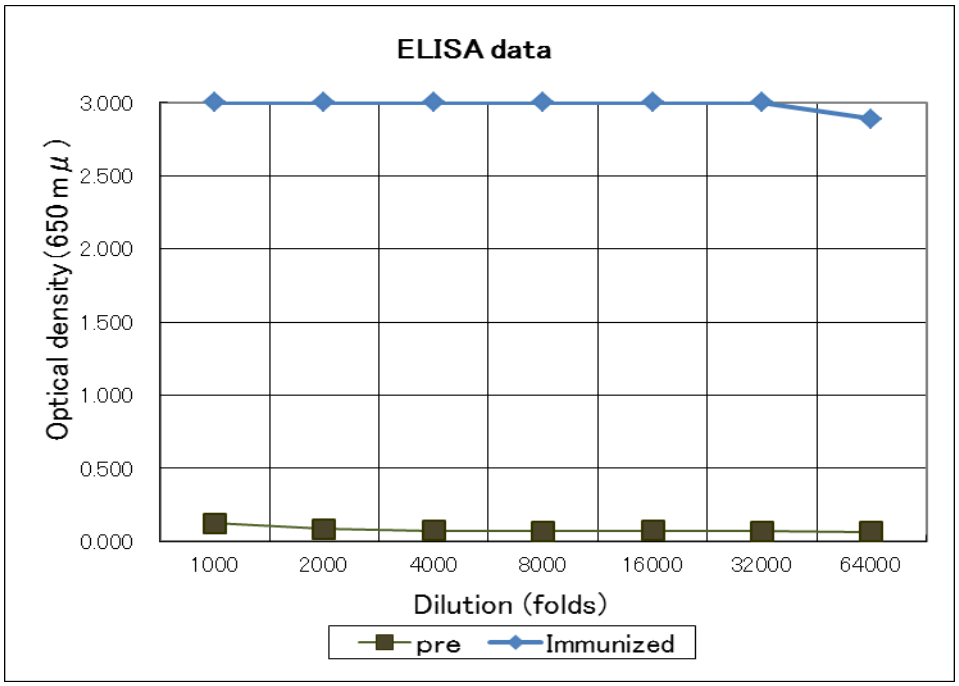


**Fig.2. Titration of antibody reactivity of anti-Legionella pneumophila antiserum by direct ELISA**

Plate was coated with 100 µl of $10^9$ 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.