

## Anti-*Legionella pneumophila* antibody, rabbit polyclonal

# 64-100 200 µl

**Function:** 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)

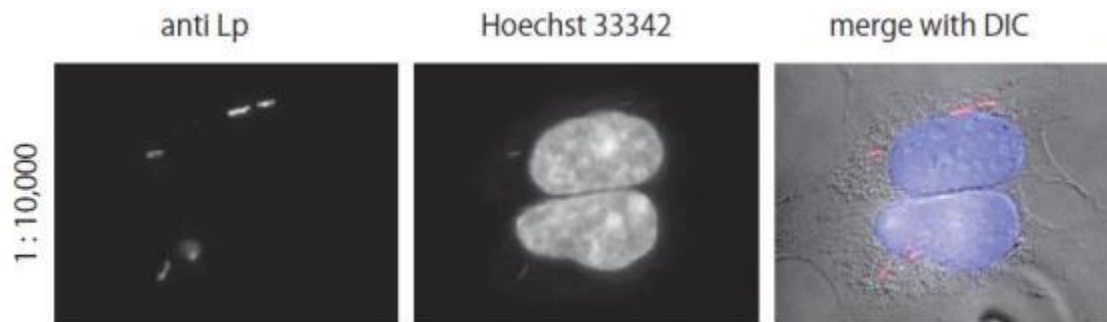
### Specification

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

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

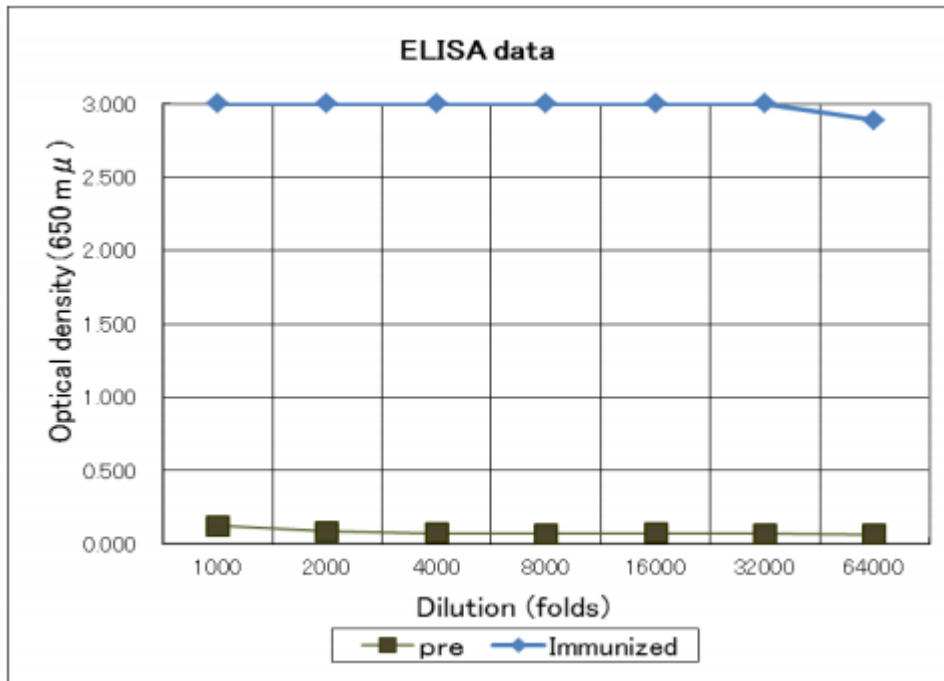
**Form:** Undiluted antiserum added with 0.09% sodium azide.

**Storage:** Shipped at 4°C. Upon arrival, aliquot and store at -20°C. Avoid repeated freeze-thaw cycles.



**Fig.1 Immunofluorescent staining of *Legionella pneumophila* in 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 a 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  $\mu$ l of 10<sup>9</sup> cells/ml per well and 100  $\mu$ l 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 pre-immunization serum and "Immunized" is immunized serum.