**Pneumocystis jiroveci [carinii] (4i255): sc-71915**

**BACKGROUND**

Pneumocystis is a genus of fungi which can be pathogenic in mammals. *Pneumocystis carinii*, also referred to as *Pneumocystis jiroveci*, is a microscopic fungus that exists in the lungs of many humans. This fungus is normally benign, but it can cause *Pneumocystis carinii pneumonia* (PCP) in immunocompromised individuals. During PCP, *Pneumocystis carinii* deteriorates the basement membrane of the lung, causing a rise in LDH levels and compromising gas exchange. Oxygen is less able to diffuse into the blood, leading to hypoxia, which, along with high arterial CO₂ levels, stimulates ventilation, thereby causing dyspnea. The fungus can also invade other visceral organs, such as the liver, spleen and kidney. Symptoms of *Pneumocystis carinii* infection include shortness of breath, non-productive cough, low grade fever, weight loss and night sweats. This disease can be fatal if not treated aggressively.

**REFERENCES**


**PRODUCT**

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Pneumocystis jiroveci [carinii] (4i255) is recommended for detection of a 82 kDa polypeptide specific to *Pneumocystis jiroveci (carinii)* by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with *G. lamblia, T. gondii, T. cruzi, L. tropica, H. histolytica, C. albicans* and *P. falciparum.*

Molecular Weight of Pneumocystis jiroveci (carinii): 82 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-358950. 2) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistoamount: sc-45086, or Organo/Limonene Mount: sc-45087.

**SELECT PRODUCT CITATIONS**


**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**

See our web site at www.scbt.com for detailed protocols and support products.

**SOURCE**

Pneumocystis jiroveci [carinii] (4i255) is a mouse monoclonal antibody raised against *Pneumocystis jiroveci (carinii)* isolated from human lung.