



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Guinea Pig Anti Streptococcus Pneumoniae

**Catalog No.**  
MD-05-0474

**Species**  
Bacteria

**Isotype**  
Guinea Pig IgG

## Description

*Streptococcus pneumoniae* is a major respiratory pathogen that also causes meningitis, otitis media, and bacteremia. In adults, capsular polysaccharides of *S. pneumoniae* can elicit protective antibodies against pneumococcal infection. However, in children <2 years of age polysaccharide vaccines do not effectively elicit a protective response, and children can have repeated infections with strains of the same or different capsular serotype. Therefore, protein-polysaccharide conjugates and pneumococcal proteins, including pneumolysin, neuraminidase, pneumococcal surface adhesin A, and pneumococcal surface protein A (PspA), have been considered as alternative means to induce protective immunity in infants and children. The increased frequency of isolation of multidrug-resistant strains of *S. pneumoniae* accentuates the need for an effective vaccine.

PspA, a surface protein and virulence factor found on all isolates of *S. pneumoniae*, is highly immunogenic. PspAs share many cross-reactive epitopes, and immunization with a single PspA is cross-protective in mice against fatal infection with strains of the mouse virulent capsular types. Mucosal immunization with PspA can also elicit immunity to carriage.

## Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	.			For antigen detection latex agglutination
Western Blotting			.	
Immunoassays			.	
Flow Cytometry			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.**  
**Not for diagnostic or therapeutic use.**



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### ***Specificity***

This antibody recognizes all Strep pneumonia serotypes tested.

### ***Formulation***

Neat liquid

### ***Preparation***

Guinea Pig antibody to Streptococcus pneumonia is prepared using extract of species specific membrane proteins as its immunogen.

### ***Storage***

Short term store at 2–8°C. Long term store at -20°C.

**Centrifuge before opening to ensure complete recovery of vial contents.**

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