

***Streptococcus pneumoniae* Monoclonal Antibodies**

ORDERING INFORMATION

Catalog Nos.:

22001 clone XI64 IgM
22002 clone XI126 IgG2b
22004 clone XIR1323 IgM

Format: 200ug in PBS, pH 7.4.

SPECIFICATION SUMMARY

Antigen for 22001 and 22002: heat-killed *S. pneumoniae* strain R36A.

Antigen for 22004: full-length recombinant pneumococcal surface protein A (PspA) type 2 strain D39.

Host species: Mouse

Specificity: These antibodies recognize pneumococcal surface protein A.

APPLICATIONS

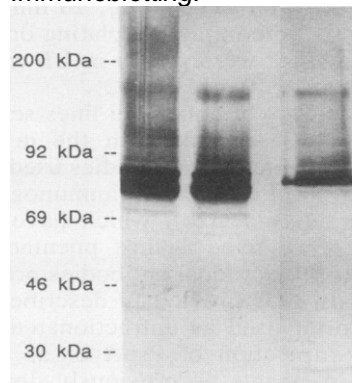
<i>ELISA:</i>	<u>Catalog No.</u>	<u>Titer</u>
	22001	1: 16,000
	22002	1: 64,000
	22004	1: 32,000

ELISA is an indirect assay against *Strep. pneumoniae* cells on the solid phase. Titrations start with antibodies at 1mg/ml.

Reactivity of monoclonal antibodies specific for PspA with clinical isolates of <i>Streptococcus pneumoniae</i>			
Capsular serotype	No. tested	MAb #22001	MAb #22002
3	10	5	5
4	11	1	4
6	22	4	7
7	1	0	0
9	3	0	3
14	3	0	0
16	1	0	0
19	3	0	0
23	3	1	1

See reference 3 below.

Immunoblotting:



Immunoblot of recombinant pneumococcal surface protein A (PspA) reacted with **#22002**. Lanes: 1 and 2, phage lysate from full-length PspA+ clone with and without induction by isopropyl-β-D-thiogalactopyranoside (IPTG), respectively; 3, cell wall extract from pneumococcal type 2 strain D39. See reference 4 below.

In vivo protection: These antibodies protect against lethal pneumococcal infection in a mouse model. See reference 1 below.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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STORAGE AND STABILITY

These antibodies are stable for at least one (1) year from date of receipt at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

PRODUCT REFERENCES

1. McDaniel L. et al. 1984 Monoclonal antibodies against protease-sensitive pneumococcal antigens can protect mice from fatal infection with *Streptococcus pneumoniae*. J Exp Med 160: 386-397.
2. McDaniel L. et al. 1987 A protective monoclonal antibody that reacts with a novel antigen of pneumococcal teichoic acid. Microbial Pathogenesis 3: 249-260.
3. Crain MJ et al. 1990 Pneumococcal surface protein A (PspA) is serologically highly variable and is expressed by all clinically important capsular serotypes of *Streptococcus pneumoniae*. Infection and Immunity 58: 3293-3299.
4. McDaniel L. et al. 1991 PspA, A surface protein of *Streptococcus pneumoniae*, is capable of eliciting protection against Pneumococci of more than one capsular type. Infection and Immunity 59: 222-228.