

***Streptococcus pneumoniae* Type 5 Polysaccharide Monoclonal Antibody**

ORDERING INFORMATION

Catalog No.	Clone No.	MAB Subtype	Size
22006	5F6	IgG3	100ug

Format: PEG-purified antibody in PBS, pH 7.4.

BACKGROUND

Streptococcus pneumoniae are Gram-positive bacteria normally found in the upper respiratory tract including the throat and nasal passages. *Streptococcus pneumoniae* is characterized by a polysaccharide capsule that completely encloses the cell and plays a key role in its virulence. The cell wall of *S. pneumoniae* is composed of peptidoglycan with teichoic acid attached to every third N-acetylmuramic acid. Lipoteichoic acid is attached via a lipid moiety, and both teichoic and lipoteichoic acid contain phosphorylcholine. Two choline residues may exist on each carbohydrate repeat, which is important to *S. pneumoniae* because the choline adheres to choline-binding receptors located on human cells.

SPECIFICATION SUMMARY

Antigen: *Streptococcus pneumoniae* serotype 5 cells.

Host species: Mouse

Specificity: This antibody recognizes pneumococcal type 5 polysaccharide. It does not cross-react with serotypes 14 or 23F.

APPLICATIONS

ELISA: qualified for reactivity with *Strep. pneumoniae* serotype 5 cells and with purified type 5 pneumococcal polysaccharides (ATCC nos. 37-X and 57-X).

Not all applications have been investigated.

Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

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

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.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.