

Mouse Anti-S. pneumoniae CPS 7F Monoclonal antibody, clone 1245 (CABT-CS124)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Recognizes the 7F serotype of PCPS specifically, no cross reactivity with other serotypes of PCPS (1, 3, 5, 4, 6A, 6B, 9V, 14, 18, 19A, 19F, 23F,etc).
Target	PCPS
Immunogen	The 7F serotype of Pneumococcal capsular polysaccharide (PCPS).
Isotype	IgG
Source/Host	Mouse
Species Reactivity	S. pneumoniae
Clone	1245
Purification	> 95% based on SDS–PAGE
Conjugate	unconjugated
Applications	ELISA, Immunoturbidimetry
Format	Liquid
Concentration	1 mg/mL
Size	1 mg
Buffer	0.1M Tris-HCl, 0.15M NaCl, 0.1mM EDTA, 0.05M Glycine
Preservative	None

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Storage	Store the product at -20°C. Product is stable for about 6 weeks at 2-8°C as an undiluted liquid. Prepare working dilution prior to use. Avoid repeated freezing and thawing.

BACKGROUND

Introduction	Streptococcus pneumoniae, or pneumococcus, is an important pathogen worldwide and causes a wide range of diseases, mostly in young children and the elderly. There are 91 serotypes of pneumococcus, each of which produces a unique polysaccharide, called the capsule, that attaches to the bacterial surface and prevents it from being cleared by the host. Capsular polysaccharide (CPS) assembly and localization in bacteria is a complex, multienzyme process leading to anchoring of the CPS polymer on the outer surface of the cell. For pathogens, the protective layer of the CPS can be important for adhesion, biofilm formation, and resistance to complement-mediated opsonophagocytosis and lysis. Although substantial information regarding the syntheses of these polymers has accumulated, less is known about the critical steps involved in their attachment to the bacterial surface.
Keywords	Pneumococcal capsular polysaccharide; Pneumococcal; capsular polysaccharide; PCPS; Pneumococcal polysaccharide; CPS; S. pneumoniae CPS; Streptococcus pneumoniae capsular polysaccharide; Pneumococcal CPS; Streptococcus pneumoniae

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