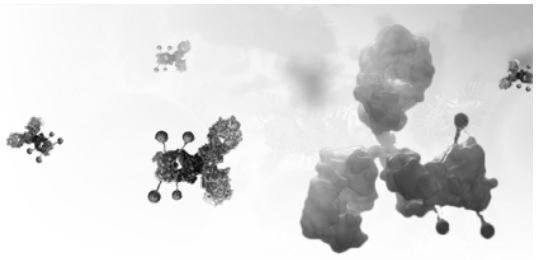

Mouse Anti-S. pneumoniae CPS 4 Monoclonal antibody, clone 1113 (DMAB-CLS25376)

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

PRODUCT INFORMATION

Specificity	Recognizes the serotype 4 of PCPS specifically, no cross reactivity with 23 other serotypes of PCPS(1, 2, 3, 5, 6A, 6B, 7F, 8, 9N, 9V, 10A, 11A、12F, 14, 15B, 17F, 18C, 19F, 19A, 20, 22F, 23F, 33F etc).
Target	PCPS
Immunogen	Serotype 4 of Pneumococcal capsular polysaccharide (PCPS)
Isotype	IgG
Source/Host	Mouse
Species Reactivity	S. pneumoniae
Clone	1113
Purification	Protein G
Conjugate	Unconjugated
Applications	Immunoturbidimetric
Format	Liquid
Size	1 mg
Buffer	10 mM Tris-glysine-HCL, 0.01% sodium azide.
Preservative	0.01% sodium azide
Storage	The material should be stored frozen at -20°C. Once thawed, keep at 4°C to avoid freezing and

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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; S. pneumoniae

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