



Magic™ Mouse Anti-L. pneumophila LPS Monoclonal antibody, clone LE01 (DMAB- CS23139)

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

PRODUCT INFORMATION

Specificity	Reactive with LPS of all L. pneumophila strains tested
Target	L. pneumophila LPS
Isotype	IgG3
Source/Host	Mouse
Species Reactivity	L. pneumophila
Clone	LE01
Conjugate	unconjugated
Applications	IF, ELISA (Cap)
Format	Liquid
Size	1 ml
Buffer	0.01M PBS, pH 7.2 with 0.1% sodium azide
Preservative	0.1% sodium azide
Storage	Be stored at 2-8°C until use

BACKGROUND

Introduction

Legionella pneumonia, first discovered after an outbreak in Pennsylvania in 1976 at the American Legion convention, is a common cause of community-acquired pneumonia. Legionella are gram-negative bacteria found in natural aquatic environments, where they are intracellular parasites of protozoa. The serogroup 1 strains most commonly cause human infections. Serotyping can be performed by antibody subgrouping, pulsed-field gele electrophoresis, or DNA sequencing. The lipopolysaccharide, LPS or endotoxin, of serogroup 1 is a bacterial virulence factor that contains 10-75 residues of the unique sugar termed legionaminic acid. Lacking free hydroxyl groups renders this LPS hydrophobic, allowing the bacterium to adhere to target cell membranes including macrophages in the lung.

Keywords

Legionella pneumonia; L. pneumonia; L. pneumophila LPS; Legionella pneumophila LPS; L. pneumophila Lipopolysaccharide