



# Magic™ Mouse Anti-L. pneumophila LPS Monoclonal antibody, clone LE02 (DMAB- CS23140)

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	LE02
Conjugate	unconjugated
Applications	IF, ELISA (Det)
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