



Magic™ Mouse Anti-F. tularensis LPS

Monoclonal antibody, clone FR01 (DMAB-CS23126)

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

PRODUCT INFORMATION

Specificity	LPS of F. tularensis. Non-reactive with related species
Target	F. tularensis LPS
Isotype	IgG3
Source/Host	Mouse
Species Reactivity	F. tularensis
Clone	FR01
Conjugate	unconjugated
Applications	sELISA, IF
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

Francisella tularensis is a small, nonmotile, aerobic, gram-negative coccobacillus that causes Tularemia, a potentially lethal and very infectious illness. *Francisella tularensis* has a thin lipopolysaccharide-containing envelope and is a non-spore-forming microbe that has the ability to survive for weeks at low temperatures in water, moist soil, hay, straw, and decaying animal carcasses. Lipopolysaccharide (LPS) is a main species-specific antigen of *Francisella tularensis*. The LPS of *Francisella tularensis* differs from LPS of other gram-negative bacteria in that it has no properties of a classical endotoxin such as interaction with Toll-like receptor which usually stimulates a strong pro-inflammatory response. This poor innate recognition of *Francisella tularensis* allows the microbe to evade early recognition by the host to promote its pathogenesis in mammals.

Keywords

Francisella tularensis; *F. tularensis*; *F. tularensis* LPS; *F. tularensis* Lipopolysaccharide; *Francisella tularensis* Lipopolysaccharide