BACKGROUND

*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.

REFERENCES


RESEARCH USE

For research use only, not for use in diagnostic procedures.

SOURCE

*Francisella tularensis* LPS (FB11) is a mouse monoclonal antibody raised against purified *Francisella tularensis* strain 15 LPS.

PRODUCT

Each vial contains 100 µg IgG2a in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

*Francisella tularensis* LPS (FB11) is recommended for detection of LPS of virulent and vaccine strains of *Francisella tularensis* by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our website at www.scbt.com or our catalog for detailed protocols and support products.