

Francisella tularensis LPS (FB11): sc-51901

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

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SOURCE

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

PRODUCT

Each vial contains 100 μ g IgG_{2a} in 1.0 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).

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.