

***Francisella tularensis* LPS Monoclonal Antibodies**

ORDERING INFORMATION

Catalog Nos.: 18741 (clone T14) and 18742 (clone FB11)

Size: 200ug Protein G-purified antibody in PBS, pH 7.4., 0.1% sodium azide

BACKGROUND

Francisella tularensis is a small, nonmotile, aerobic, gram-negative coccobacillus and the etiologic agent of tularemia. It has a thin lipopolysaccharide-containing envelope and is a resilient non-spore-forming bacterium that can survive for several weeks at low temperatures in water, soil, hay, and decaying animal carcasses. Lipopolysaccharide (LPS) is a major species-specific antigen of *Fr. tularensis*.

SPECIFICATION SUMMARY

Antigen: #18741 (T14) was derived from mice immunized with pooled water-soluble antigens from disintegrated microbial mass of *Fr. tularensis* vaccine strain.

#18742 (FB11) was derived from mice immunized with whole *Fr. tularensis*.

Host Species: Mouse

Antibody Class: #18741 (T14) = IgG3; #18742 (FB11) = IgG2a

STORAGE AND STABILITY

These antibodies are stable for at least one (1) year at -20°C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

SPECIFICITY

These antibodies specifically recognize *Fr. tularensis* LPS. They do not cross-react with *Fr. novicida*, *B. abortus*, *B. suis*, *B. melitensis*, *B. ovis*, *B. neotomae*, *Y. pestis*, *Y. pseudotuberculosis*, *Y. enterocolitica*, *S. typhimurium*, *V. cholera*, or *E. coli*.

The epitope for #18742 (FB11) is located on the O-antigen polysaccharide chain of *Fr. tularensis* LPS which consists of tetrasaccharide fragments. Tetrasaccharide D-GalpNAcAN-(1-4)-alpha-D-GalpNAcAN-(1-3)-beta-D-QuipNAc-(1-2)-beta-D-Quip4NFm and trisaccharide D-GalpNAcAN-(1-3)-beta-D-QuipNAc-(1-2)-beta-D-Quip4NFm compete with LPS of *Fr. tularensis* in ELISA for binding MAb #18742 (FB11).

The epitope for #18741 (T14) has not been identified.

APPLICATIONS

ELISA: use at 1-5ug/ml

Immunofluorescence: use at 5-10ug/ml

These are recommended concentrations; endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.