



DataSheet

CATALOGUE #: 3FT6

PRODUCT NAME: Monoclonal mouse anti-*Francisella tularensis* LPS

MAbs: T14, FB11

Hybridoma clone for MAb T14 has been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with pooled water-soluble antigens from disintegrated microbial mass of *Fr. tularensis* vaccine strain.

Hybridoma clone for MAb FB11 has been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with *Fr. tularensis*.

Specificity:

MAb T14 reacts with LPS of *Fr. tularensis*. There is no cross-reactivity with *Y. pestis*, *Y. pseudotuberculosis*, *Y. enterocolitica*, *V. cholera*, *E. coli*, *S. typhimurium*, *Fr. novicida*, *Br. melitensis*, *Br. abortus*, *Br. suis*, *Br. ovis*, and *Br. neotomae*.

MAb FB11 recognizes LPS of virulent and vaccine strains of *Fr. tularensis*. There is no cross-reactivity with *Fr. novicida*, *Br. abortus*, *Br. suis*, *Br. melitensis*, *Br. ovis*, *Y. pestis*, *Y. enterocolitica*, *Y. pseudotuberculosis*, *E. coli*, and *V. cholerae*.

The binding site for MAb FB11 is located on the O-antigen polysaccharide chain which consists of tetrasaccharide fragments and has the following structure: -4)α-D-GalpNAcAN-(1-4)-α-D-GalpNAcAN-(1-3)-β-D-QuipNAc-(1-2)-β-Quip4NFm-(1).

Tetrasaccharide D-GalpNAcAN-(1-4)-α-D-GalpNAcAN-(1-3)-β-D-QuipNAc-(1-2)-β-D-Quip4NFm and trisaccharide D-GalpNAcAN-(1-3)-β-D-QuipNAc-(1-2)-β-D-Quip4NFm compete in ELISA for binding MAb FB11 with LPS of *Fr. tularensis*.

MAb isotypes: IgG2a for MAbs FB11

IgG3 for MAb T14

Applications:

MAbs T14 and FB11 can be used for detection of *Fr. tularensis* in ELISA and immunofluorescence technique.

Purification:

Chromatography on protein G Sepharose

Presentation:

PBS, pH 7.4, 0.09 % sodium azide (NaN₃)

Storage:

+4 °C (+2 ... +8 °C allowed)

Material safety note:

This product is sold **for research use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.

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